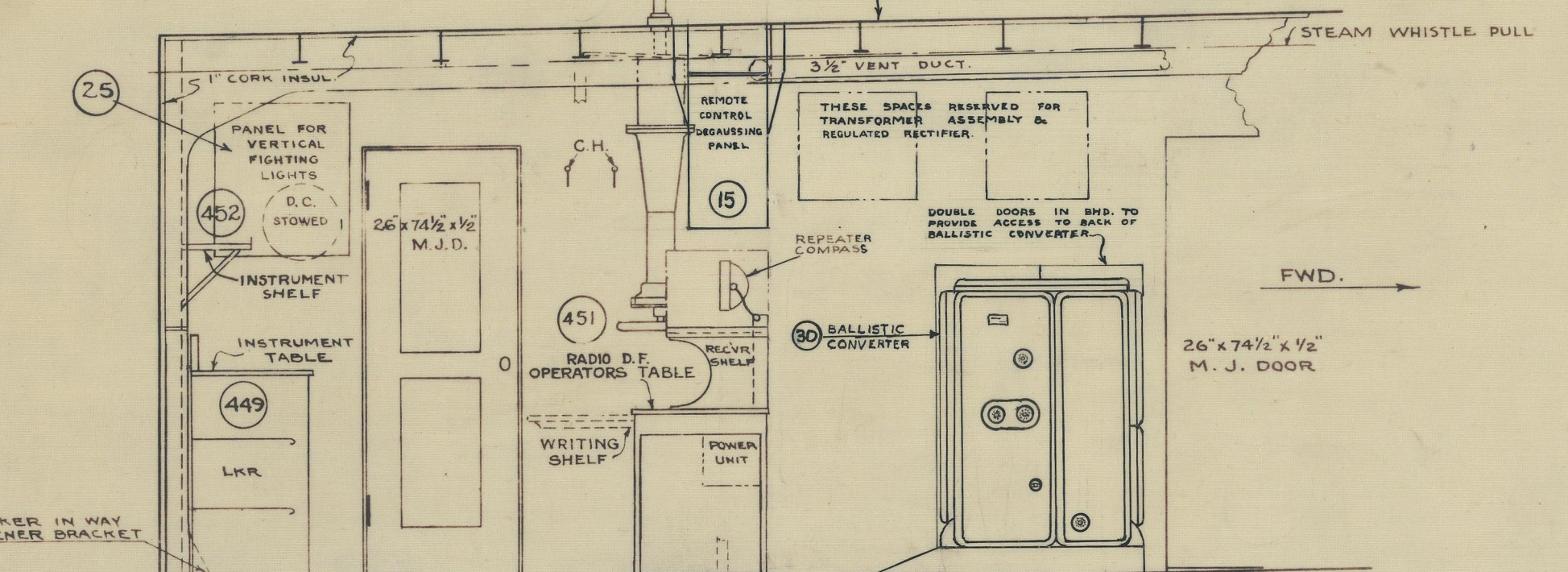
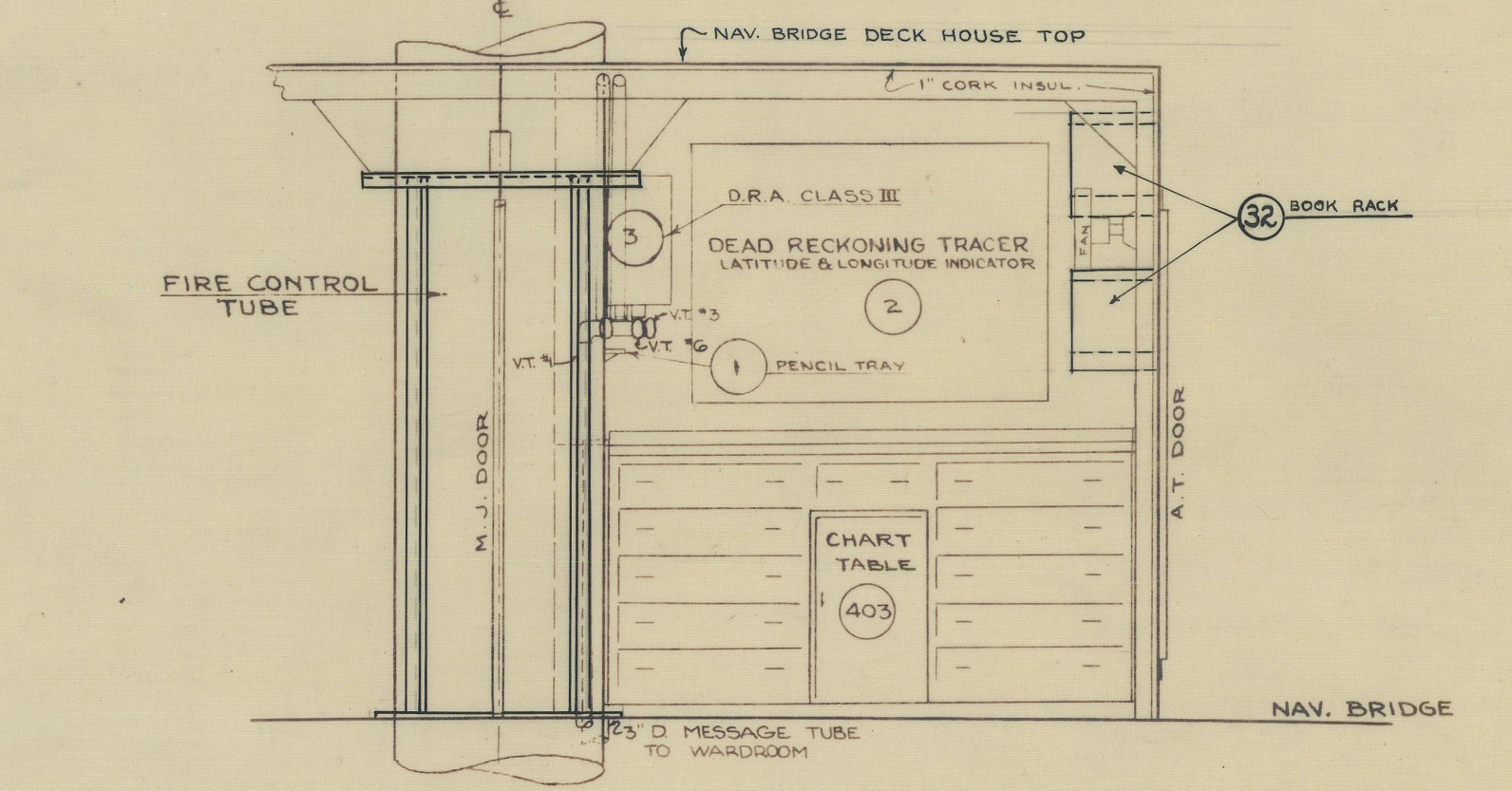
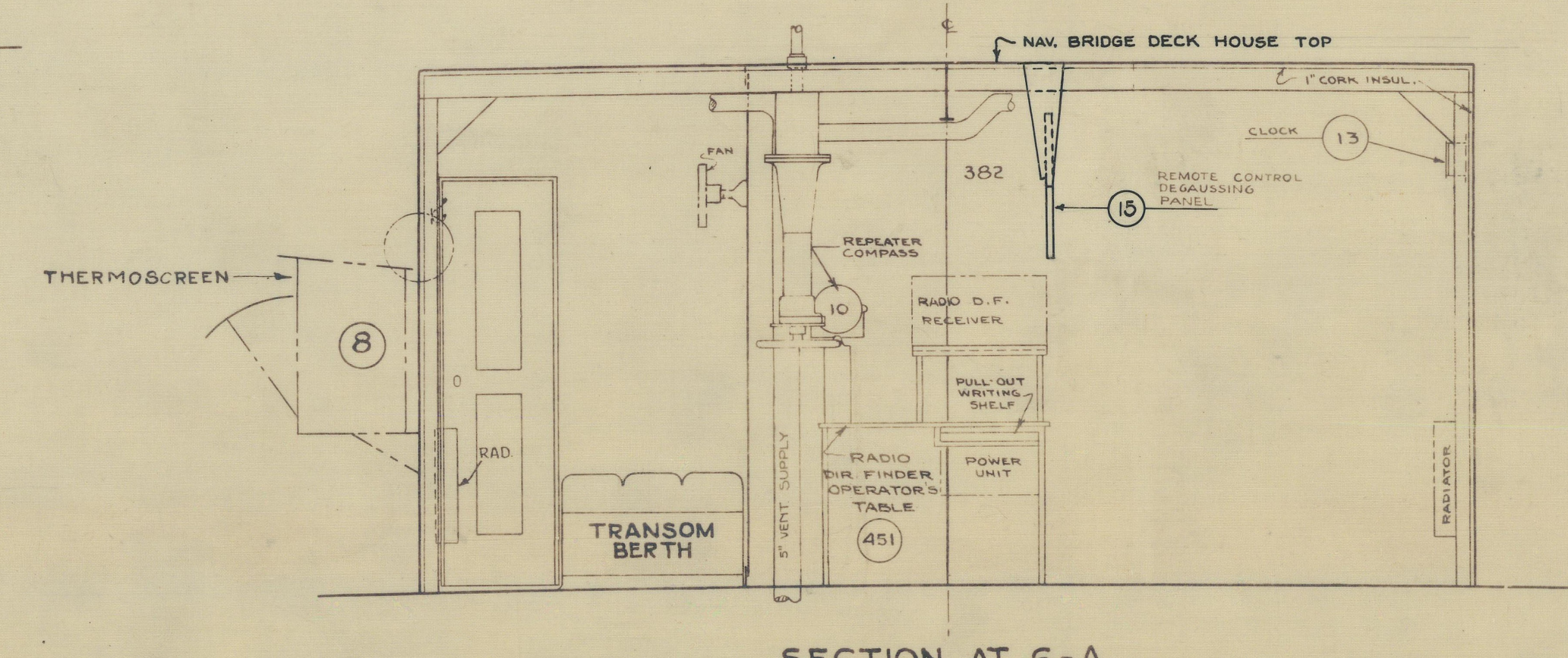

NAV. BRIDGE DECK HOUSE TOP
STEAM WHISTLE PULL
1" CORK INSUL.
3½" VENT DUCT
25
PANEL FOR VERTICAL FIGHTING LIGHTS
452
D.C. STOWED
INSTRUMENT SHELF
INSTRUMENT TABLE
449
LKR
26"x74½"x½" M.J.D.
C.H.
REMOTE CONTROL DEGAUSSING PANEL
15
REPEATER COMPASS
451
RADIO D.F. OPERATORS TABLE
RECV'R SHELF
WRITING SHELF
POWER UNIT
THESE SPACES RESERVED FOR TRANSFORMER ASSEMBLY & REGULATED RECTIFIER.
DOUBLE DOORS IN BHD. TO PROVIDE ACCESS TO BACK OF BALLISTIC CONVERTER
30 BALLISTIC CONVERTER
26"x74½"x½" M.J. DOOR
FWD.
RECESS LOCKER IN WAY OF STEFENER BRACKET
NAV. BRIDGE
62
60
58
56

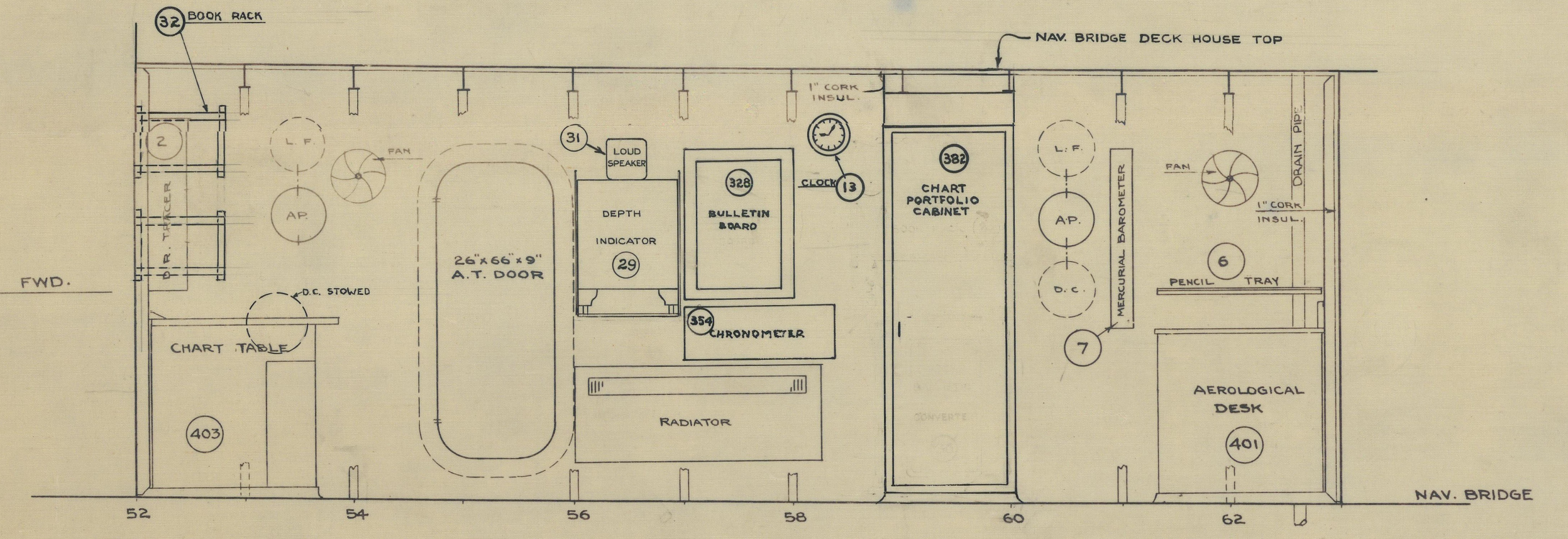
SECTION 7-A
STBD. SIDE LOOKING TO PORT



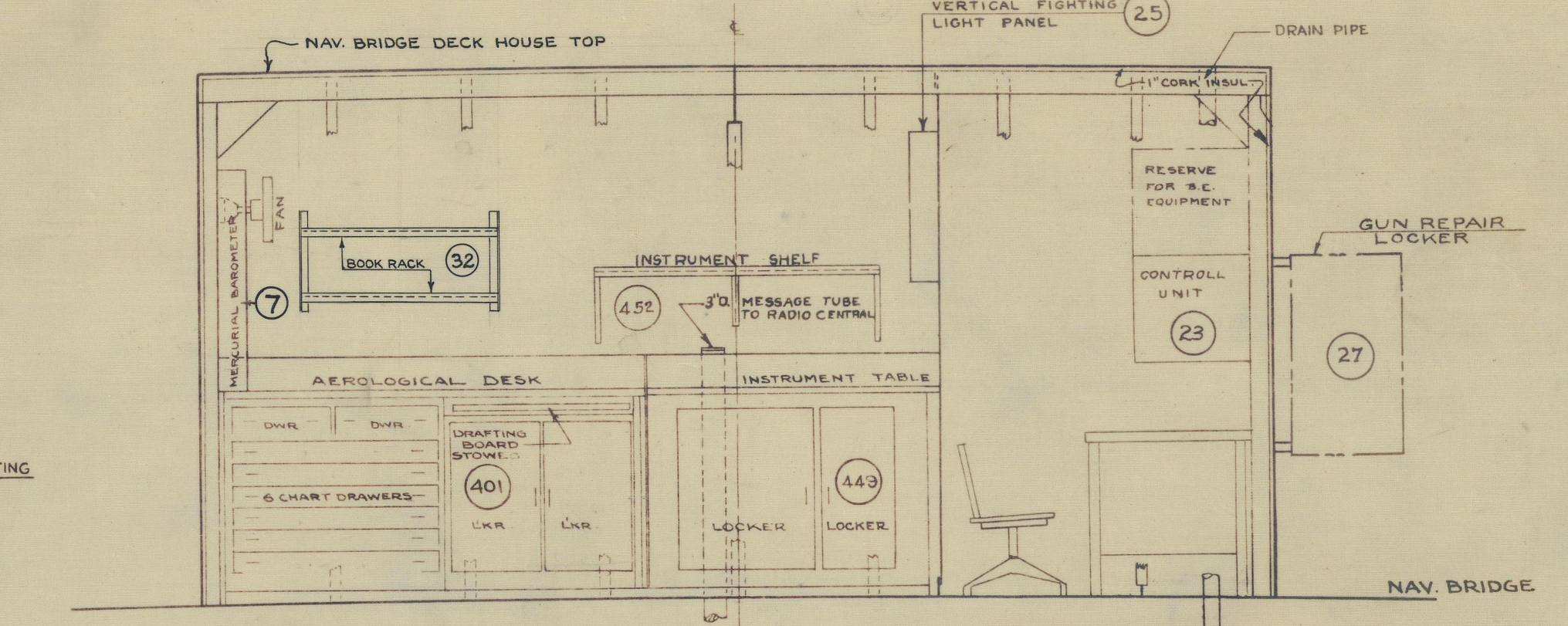
SECTION AT FR. 55
STBD. SIDE LOOKING FWD.



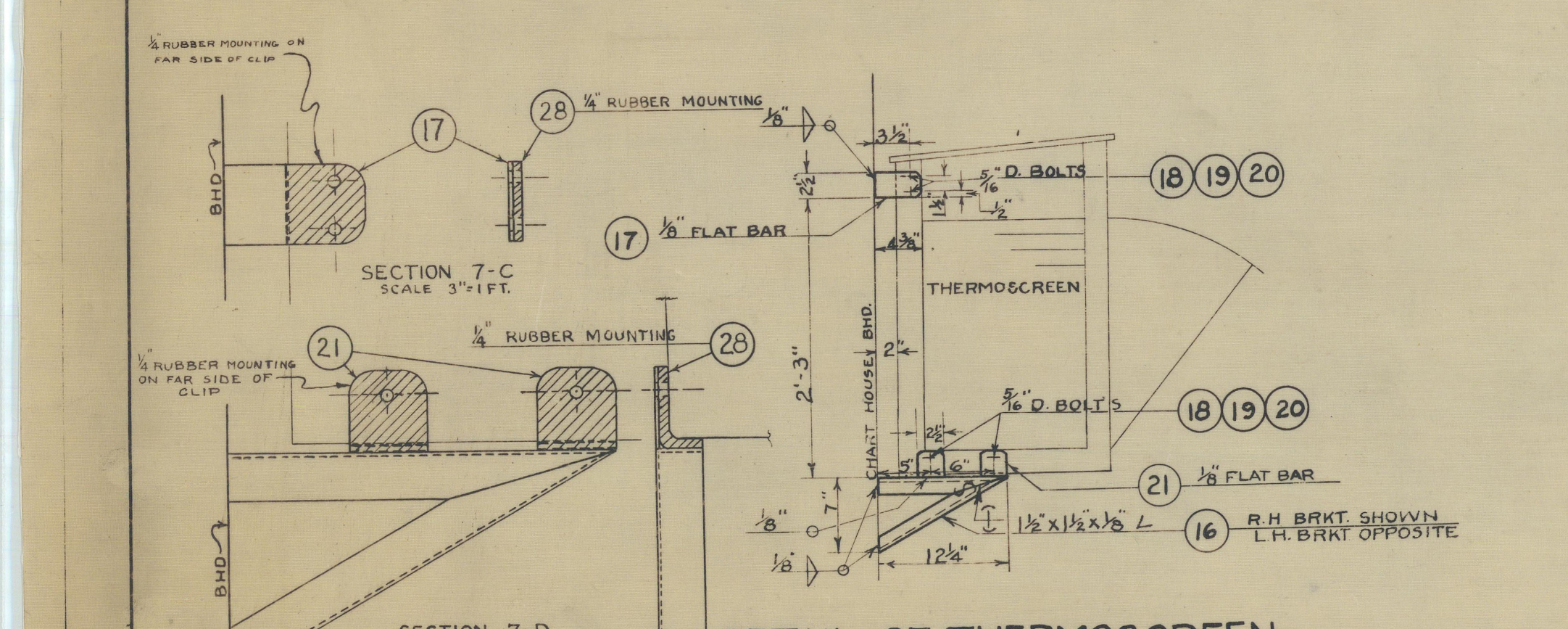
SECTION AT 6-A
LOOKING FWD.



SECTION 7-B
STB'D. SIDE LOOKING OUTBOARD



SECTION
LOOKING AFT FROM FR. 61

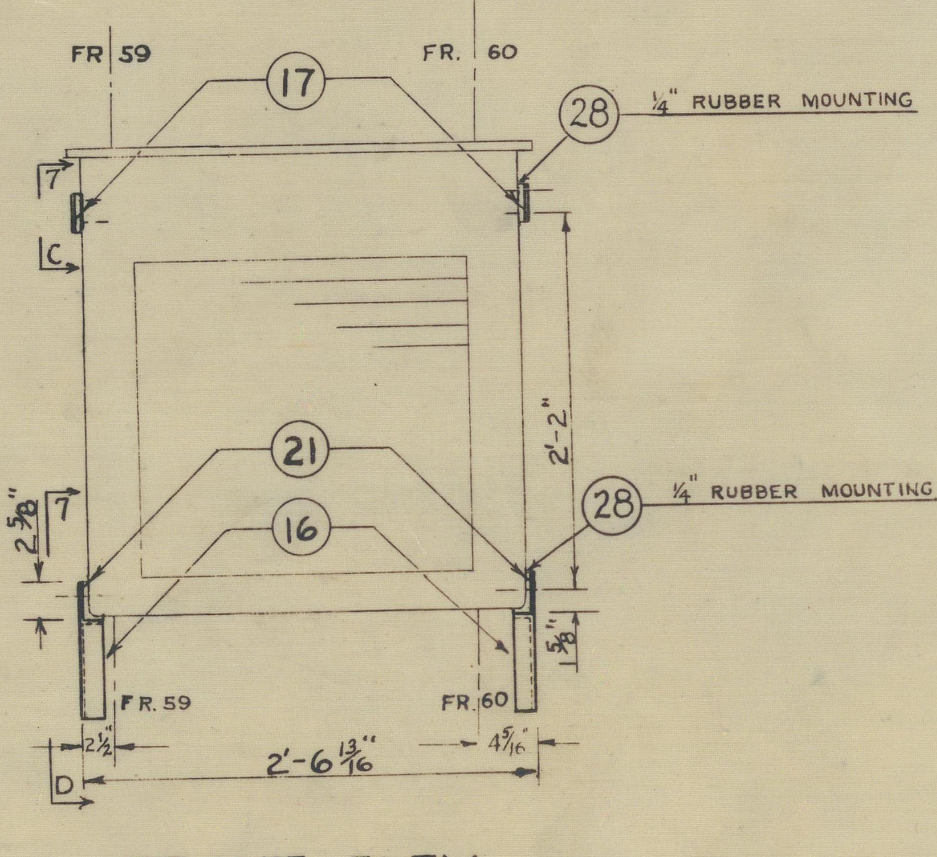


SECTION 7-C
SCALE 3" = 1 FT.

SECTION 7-D
SCALE 3" = 1 FT.

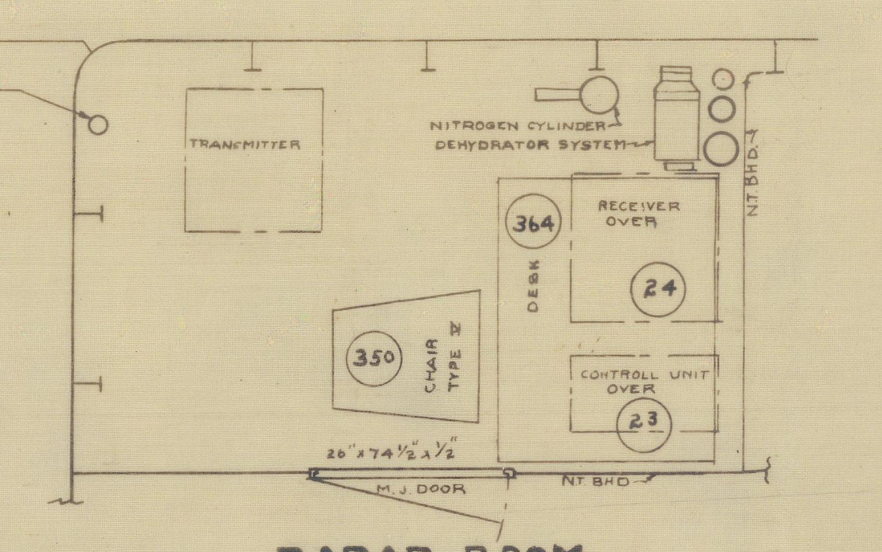
DETAIL OF THERMOSCREEN FOUND'N.
PORT SIDE LOOKING AFT

SCALE 1" = 1'-0"

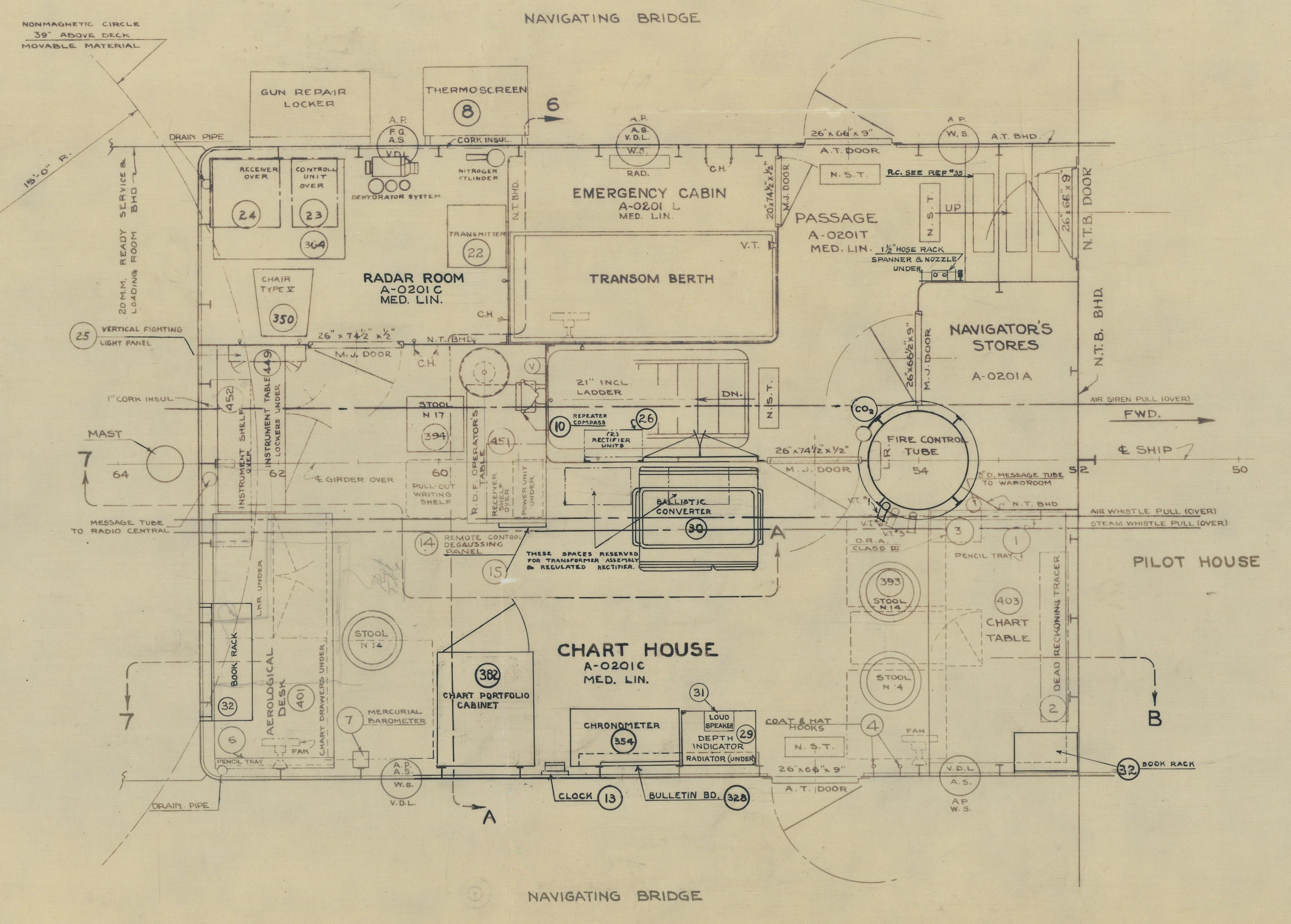


FRONT ELEV.
PORT SIDE LOOKING TO STBD

SCALE 1" = 1'-0"



RADAR ROOM
FOR AVP 23-32 ONLY



LIST OF MATERIAL (CONT'D.)

PIECE NO.	NO. REQD.	DESCRIPTION	MATERIAL	N.D. SPEC.	REMARKS
22	1	TRANSMITTER	—	—	ORDERED ON REFERENCE — 36
23	1	CONTROL UNIT	—	—	" " " — 36
24	1	RECEIVER	—	—	" " " — 36
350	1	CHAIR TYPE V.	AL. AL.	26-F-4	ORDERED ON REFERENCE — 12
364	1	DESK FLAT TOP, SINGLE PEDESTAL	AL. AL.	26-C-6	" " " — 12
25	1	VERTICAL FIGHTING LIGHT PANEL	—	—	" " " — 37
26	2	RECTIFIER UNITS	—	—	" " " — 38
27	1	GUN REPAIR LOCKER	—	—	" " " — 39
28	1	GASKET RUBBER 2½" x ¼" L = 18"	RUBBER	33-R-4	
29	1	DEPTH INDICATOR	—	—	
30	1	BALLISTIC CONVERTER	—	—	
31	1	LOUD SPEAKER	—	—	
32	2	BOOK RACK	AL. ALLOY	26-F-4	ORDERED ON REFERENCE — #24

ABBREVIATIONS

AP.	AIRPORT
A.S.	AIR SCOOP
A.T.	AIR TIGHT
D.C.	DEAD COVER
D.R.A.	DEAD RECKONING ANALYZER
DWR.	DRAWER
F.W.T.M.H.	FLUSH WATER TIGHT MANHOLE
INCL.	INCLINED
L.F.	LENS FRAME
LKR	LOCKER
LR	LADDER ROUNDS
MED. LIN.	MEDIUM LINOLEUM
M.J.	METAL JOINER
N.S.T.	NON-SLIP TREAD
N.T.	NON-TIGHT
N.T.B.	NON TIGHT BALLISTIC
RAD.	RADIATOR
R.D.F.	RADIO DIRECTION FINDER
REF.	REFERENCE
RK.	RACK
R.C.	RUBBER CLEAT
S.T.S.	SPECIAL TREATMENT STEEL
VENT.	VENTILATION (DUCT)
V.D.L.	VENTILATION DEADLIGHT
W.T.	WATER TIGHT

LIST OF MATERIAL

QUANTITIES ARE FOR ONE SHIP

PIECE NO.	NO. REQ'D.	DESCRIPTION	MATERIAL	N.D. SPEC.	REMARKS
403	1	CHART TABLE	AL. ALLOY	26 F 4	ORDERED ON REF #12
1	1	PENCIL TRAY - 33"	" "	"	FURNISHED WITH PIECE #403 - TO CUT
382	1	CHART PORTFOLIO CABINET	" "	"	ORDERED ON REF. # 25
354	1	CHRONOMETER BOX	MAHOGANY	AA F 801	" " " 23
448	1	BOOK RACK	AL. ALLOY	26 F 4	" " " 24
328	1	BULLETIN BOARD - TYPE "B"	" "	"	" " " 12
2	1	DEAD RECKONING TRACER			ALLOWANCE LIST ITEM (NAVIGATION)
3	1	DEAD RECKONING ANALYZER, CL. III			" " " "
393	3	STOOL - N 14	OAK	26 C 1	ORDERED ON REF #12
411	1	TRANSOM BERTH	AL. ALLOY	26 F4	" " " "
4	9	COAT & HAT HOOKS	BRASS, N.P.	42 H 3	ORDERED ON REF. #16
401	1	AEROLOGICAL DESK	AL. ALLOY	"	ORDERED ON REF. #12
6	1	PENCIL TRAY - 36"	" "	"	FURNISHED WITH PIECE #403 - TO CUT
449	1	AEROLOGICAL INSTRUMENT TABLE	" "	"	ORDERED ON REF. #25
452	1	AEROLOGICAL INSTRUMENT SHELF	" "	"	" " " #25
7	1	MERCURIAL BAROMETER			ALLOWANCE LIST ITEM (AERONAUTICS)
8	1	THERMOSCREEN			" " " "
451	1	R.D.F. OPERATORS TABLE & SHELF	AL. ALLOY	26 F 4	ORDERED ON REF. #25
10	1	REPEATER COMPASS			ALLOWANCE LIST ITEM (NAVIGATION)
394	1	STOOL - N 17	OAK	26 C 1	ORDERED ON REF. #12
13	1	CLOCK		18 C 13	ALLOWANCE LIST ITEM (NAVIGATION)
14	2	HOOKS FOR BATTLE TELEPHONE HEADSETS	COMP. Nr	46 B 6	ORDERED ON REF. #29.
15	1	REMOTE CONTROL DEGAUSSING PANEL			ORDERED ON REF. # 32
16	2	1½" x 1½" x ⅛" ∠ L = 2'-3"	M.S. GALV.	46 S 1	
17	2	⅛" FLAT BAR 2½" x 4⅜"	"	"	
18	8	5/16 D. 16-NC-3 HEX. HD. BOLTS L = TO SUIT	S. CAD. PLT.	43 B 11	
19	8	5/16 D. 16-NC-3 HEX. NUTS	BRASS	"	
20	8	⅜ D. WASHERS	S. CAD. PLT.	43 W 1	
21	4	⅛" FLAT BAR 2½ x 2⅜"	M.S. GALV.	46 S 1	

GENERAL NOTES

1. ALL METAL FURNITURE TO BE MADE IN SECTIONS FOR SHIPPING THROUGH 26" x 66" DOORS.
2. ALL SUB-BASES TO BE 2¼" MINIMUM HEIGHT ABOVE FINISHED DECK.
3. FILLER PIECES SHALL BE FITTED AS REQUIRED TO ENCLOSE ALL INACCESSIBLE SPACES BETWEEN FURNITURE AND SHIP'S STRUCTURE. FILLER PIECES TO BE FINISHED TO MATCH FURNITURE.
4. COAT AND HAT HOOKS TO BE PLACED 6'-0" ABOVE DECK AND A MINIMUM OF 8" CLEAR OF FURNITURE AND 8" APART WHERE POSSIBLE. NUMBER AND LOCATION MAY BE CHANGED AS REQUIRED BY P.C.O.
5. PIECE NUMBERS ABOVE 300 CORRESPOND TO PIECE NUMBERS ON REF. #12.
6. ALL AIRPORTS 12" DIA. AND 5'-3" ABOVE DECK.
7. FINAL LOCATION OF DECK CLOCK AS DESIGNATED BY P.C.O.
8. FOR FOUNDATION OF RECTIFIER UNITS SEE REF. #25.
9. FOR ORIGINAL INSTALLATION, CHART HOUSE ARRG'T. SEE REF. #41.
10. DEPTH INDICATOR & LOUD SPEAKER REMOVED FROM PILOT HOUSE ON AVP 12 & 13 & RELOCATED IN CHART HOUSE TO SUIT BU. LETTER #C-AVP 1013/S68(477) 12 MARCH 1942.

REFERENCES

REF. NO.	P.S. NO. AVP 1013 -	BU. C. & R. NUMBER	TITLE
1	AVP 1011 1601-3	315153	COMPARTMENT AND ACCESS AND DECK SUPPORTS - MAIN AND SUPER. DECKS AND DECKS ABOVE
2	AVP 1011 3301-3	315387	GENERAL ARRANGEMENT - SUPER. DECK AND ABOVE
3	2406-1	315245	NAV. BRIDGE AND PILOT HOUSE FLAT
4	2406-2	315246	NAV. BRIDGE - HOUSE AND HOUSE TOP
5	1107-5	315052	NON-STRUCTURAL BULKHEADS TYPES "A" AND "B" ABOVE MAIN DECK
6	7108-1	315668	FIRE CONTROL TUBE
7	1600-2	315146	METAL JOINER AND SCREEN DOOR LIST
8	1600-1	315145	W.T. AND N.T. DOOR LIST
9	1600-5	315149	DOOR HOOK LIST
10	1203-1	315103	AIRPORT LIST
11	2803-1	315264	LABEL PLATE LIST
12	3209-1	315394	LIST OF METAL FURNITURE
13	3209-12	315405	MISC. FURNITURE - SHEET 1
14	3209-13	315406	MISC. FURNITURE - SHEET 2
15	3209-4	315397	SECURING FURNITURE - METHOD OF
16	3306-17	315424	COAT & HAT HOOKS - LIST OF
17	3801-5	315295	VENT. SUP. SYS. 01-57-2 AND 01-57-4
18	3801-9	315299	VENT. SUP. SYS. 3-61, EXH. SYS. 01-59 AND 3-63
19	3901-2	315465	INSULATION AND DECK COVERING ABOVE MAIN DECK
20	AVP 10-S24	-2 (BU. ENG.)	GYRO COMPASS AND DEAD RECKONING TRACER SYSTEMS CIRCUITS "LC" AND "TL"
21			
22	3306-13	315420	CURTAIN RODS AND FIXTURES
23	2407-2	315249	CHRONOMETER BOX
24	3306-16	315423	BOOK SHELVES - MISC.
25	2403-3	316049	CHART HOUSE - DETAILS
26	3206-1	316048	BALLOON INFLATION LOCKER
27	S48-14	316522	WHISTLE AND SIREN PULLS - ARRANGEMENT
28	6503-1	315629	VOICE TUBES GENERAL ARRANGEMENT.
29	7108-2	315668	FIRE CONTROL HEADSET STOWAGE, BOXES & HOOKS.
30	S67-4	(BU. ENG.)	RADIO DIRECTION FINDER - ARRANGEMENT AND DETAILS.
31	8101-1	414727	DEGAUSSING RHEOSTAT ROOM ARRG'T AND SUPPORTS.
32	S81-11	(BU. ENG.)	PERMANENT DEGAUSSING EQUIPMENT - CONTROL PANELS - DETAILS.
33	AVP 1213 1601-7	316080	COMPARTMENT & ACCESS - MAIN & SUPERSTRUCTURE DECKS AND ABOVE.
34	AVP-1213 3301-6	316093	GENERAL ARRANGEMENT - SUPERSTRUCTURE DECK & DECKS ABOVE.
35	1403-1	315125	DECK COVERING IN WALKWAYS - WEATHER DECKS.
36	AVP 10 S67-41	—	MODEL "SC" RADAR SYSTEM ISOMETRIC WIRING DIAGRAM.
37	AVP 10 S60-110		ARRANGEMENT OF ELECTRICAL EQUIPMENT - CHART HOUSE.
38	8200-2	315754	GUN GEAR & REPAIR LOCKER.
39	AVP 10-S66-427		RECTIFIER UNIT ASSEMBLY & DETAILS.
40	AVP 10-S67-44		SEA PLANE TENDER AVP 23-32. S.C. RADAR ARRGT AND TRANSMISSION LINE PLAN.
41	2403-1	315243	CHART HOUSE ARRG'T. (ORIGINAL INSTALLATION).

ALTERATIONS

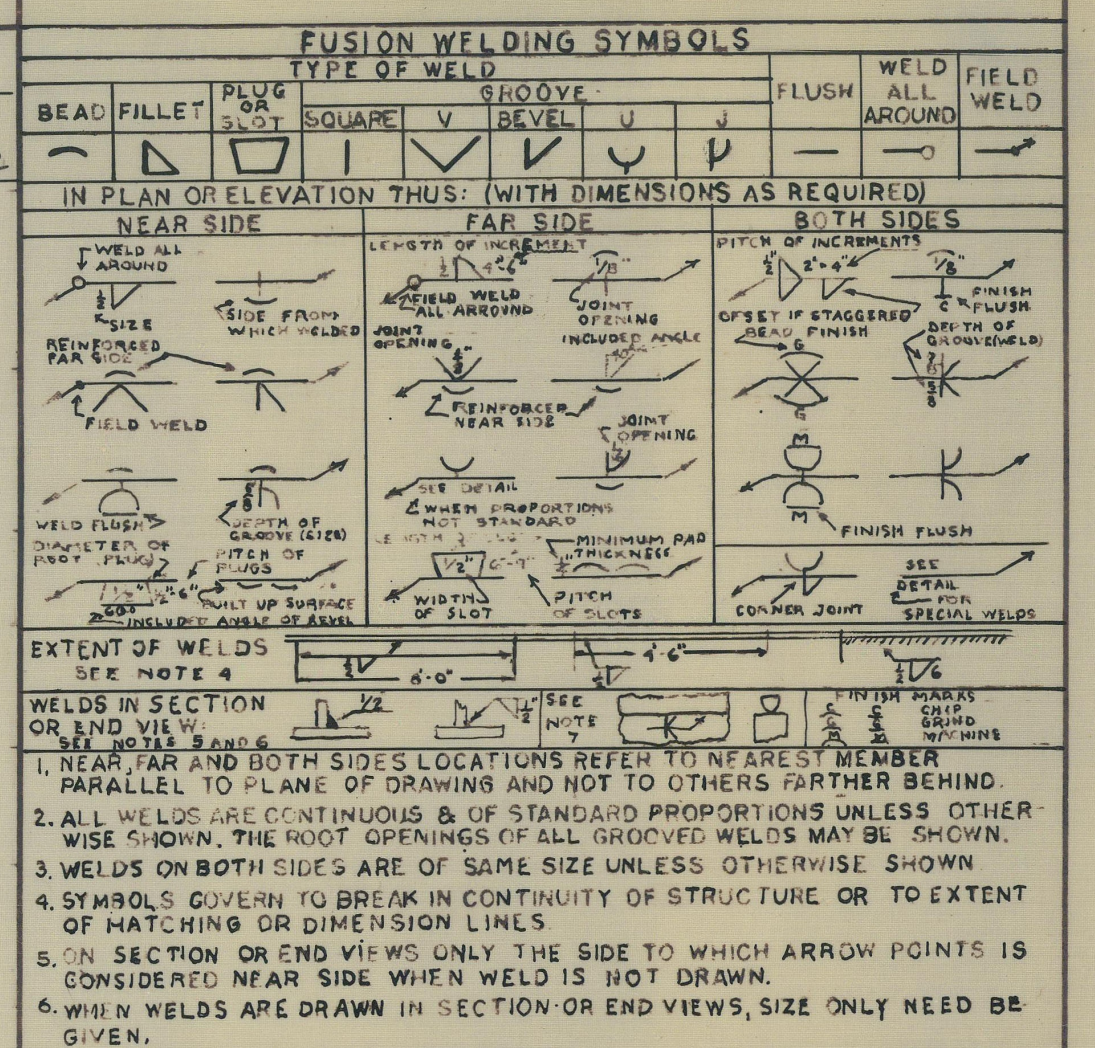
MARK	PANEL	MADE BY	CH'K'D BY	ALTERATION	APP'D.	DATE
Ⓐ	2	D.E.H.		PLAN CHANGED FROM AVP 1213-2403-5 TO AVP 1013-2403-5 TO INCLUDE U.S.S. BARNEGAT & U.S.S. BISCAYNE. CONVERTER RELOCATED	ARL	5/23/42

NOT USED ON AVP 1013
Paul W. Cummings
P.S.N.Y. 4/1/43

JOB ORDERS, WEIGHTS, ETC.

DESCRIPTION		JOB ORDER No.	BILL OF MAT'L. No.	COST GROUP	WEIGHT GROUP	CALC. WEIGHT
GOV'T. FURNISHED	ITEMS	0003-02-3	2403-5A	46	50a	
DO	DO	9000-02-3				

9/26/41



1. NEAR, FAR AND BOTH SIDES LOCATIONS REFER TO NEAREST MEMBER PARALLEL TO PLANE OF DRAWING AND NOT TO OTHERS FARTHER BEHIND.
2. ALL WELDS ARE CONTINUOUS & OF STANDARD PROPORTIONS UNLESS OTHERWISE SHOWN. THE ROOT OPENINGS OF ALL GROOVED WELDS MAY BE SHOWN.
3. WELDS ON BOTH SIDES ARE OF SAME SIZE UNLESS OTHERWISE SHOWN.
4. SYMBOLS GOVERN TO BREAK IN CONTINUITY OF STRUCTURE OR TO EXTENT OF HATCHING OR DIMENSION LINES.
5. ON SECTION OR END VIEWS ONLY THE SIDE TO WHICH ARROW POINTS IS CONSIDERED NEAR SIDE WHEN WELD IS NOT DRAWN.
6. WHEN WELDS ARE DRAWN IN SECTION OR END VIEWS, SIZE ONLY NEED BE GIVEN.
7. IN JOINTS IN WHICH ONE MEMBER ONLY IS TO BE GROOVED ARROWS POINT TO THAT MEMBER.

PRINTS ISSUED

	DATE	X11	X11L	X17	X23	X31	X31 ORD.	X38	X41	X51	X51R		X56	X61	X68	X71	X74	X94	060	043	SCH 043	042H	042M	NCO	S.F.	TEST GROUP	042S	BOST.	SOS. Seattle	
	4-23-42	2	1	2				1		2										1		2		1			1		3	WWA
WLA	5/23/42																			1		2						1	4	WLA.
	1-28-43	2		3				1		2														1						H.A.

②

FORWARDED TO	BU. BU.	IN. LET. NO.		DATED	
APPROVED BY	BU. C. & R. BU.	IN. LET. NO.	AVP 10-13/S24 (5-13 Dj)	DATED	6-8-40

PUGET SOUND NAVY YARD
INDUSTRIAL DEPARTMENT

SEAPLANE TENDERS (SMALL)
U.S.S. BARNEGAT - AVP10
U.S.S. CASCO - AVP12
U.S.S. BISCAYNE - AVP11
U.S.S. MACKINAC - AVP13

Ⓐ

CHART HOUSE ARRANGEMENT
FINAL INSTALLATION

PLAN NO. AVP 1013 - 2403-5

SCALE ½" = 1'-0"
DELINEATOR ~~L.J. Nelson~~ REISNER
CHIEF DR'MN. H. Schaus
CHECKER Raymond E. Knowles
GROUP LEADER N.C.W.
for SUPERVISOR N.C. Willey
APPROVED
DATE 4-22-42
Wm. H. Fallwell
FOR MANAGER

BASIC BU. C. & R. No. 315897

AVP10/S24-3
MES.

AVP /S1-3
SER. 6160694-A/45

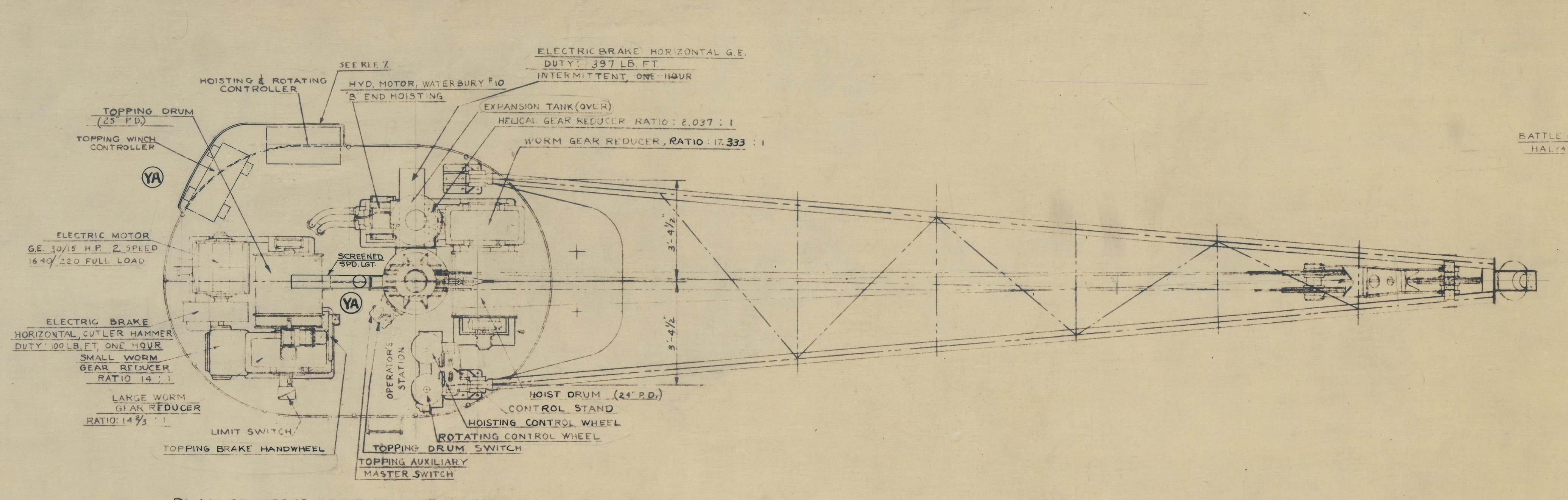
INDEXED

Jw 433 F.

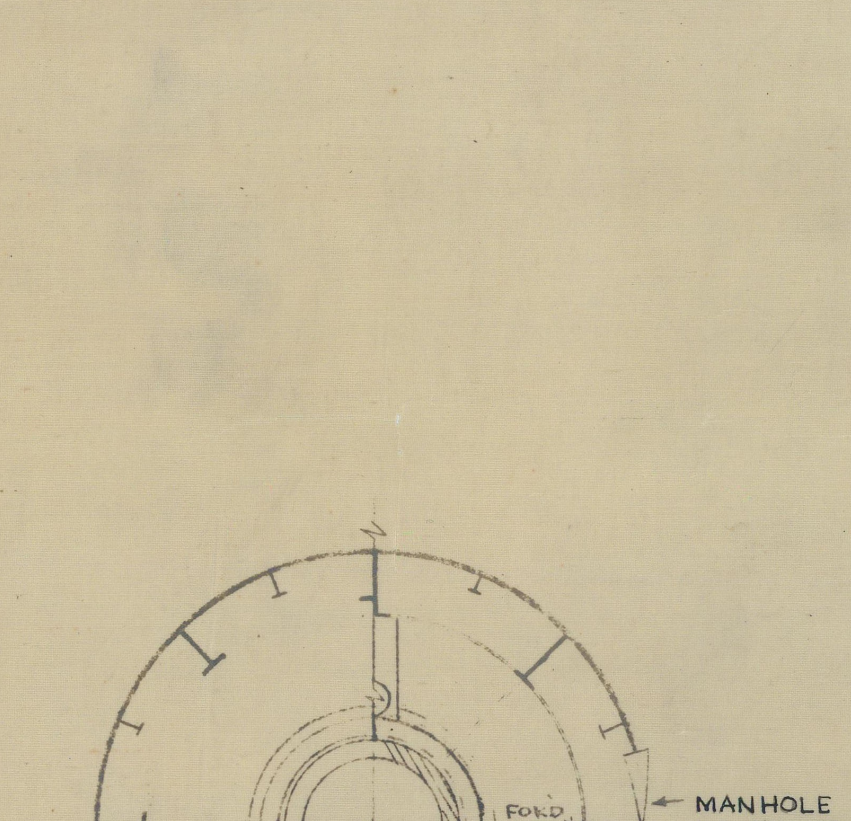
BU. C. & R. NO. 315897

U.S.S. BARNEGAT AVP10, U.S.S. BISCAYNE A
CHART HOUSE ARRA

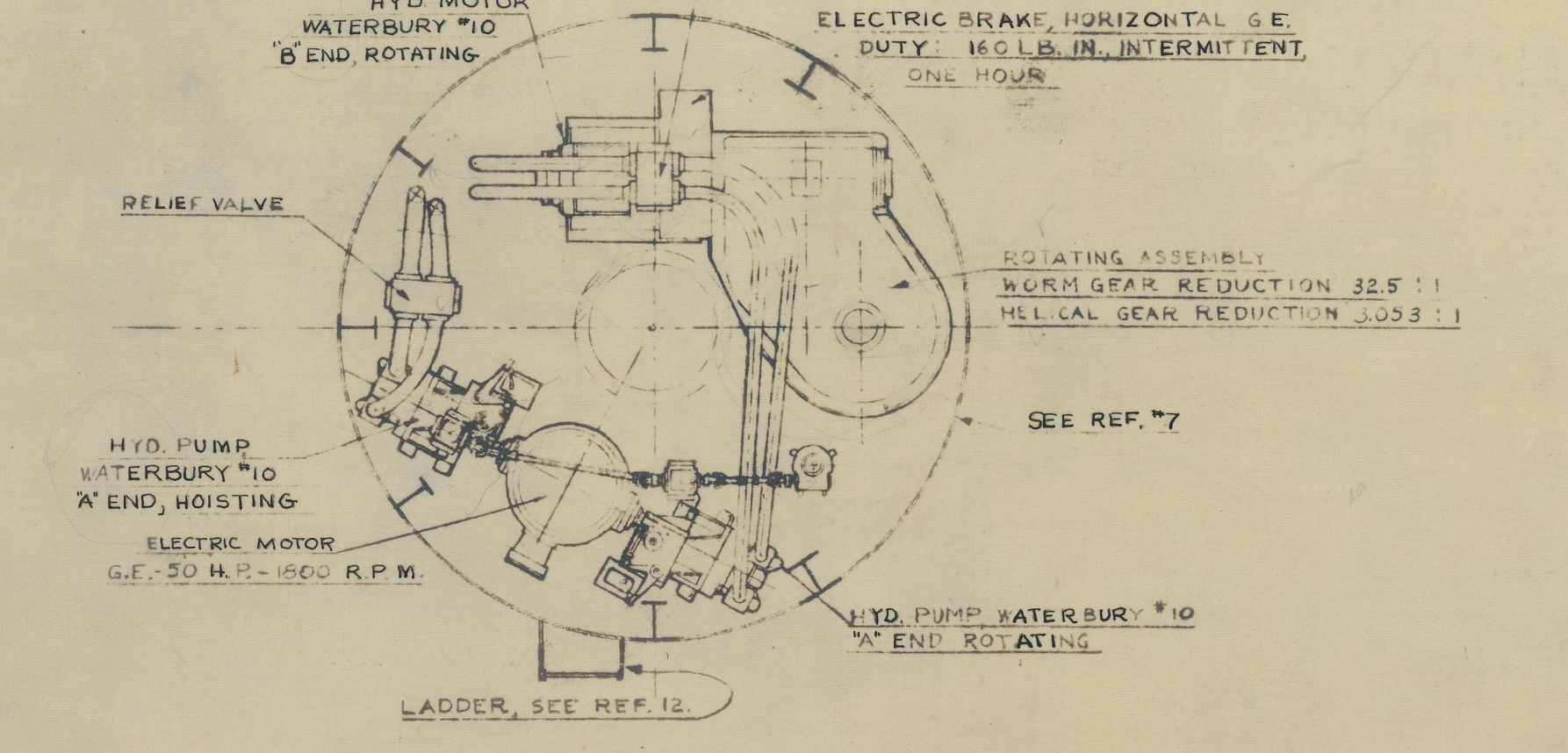
S-24



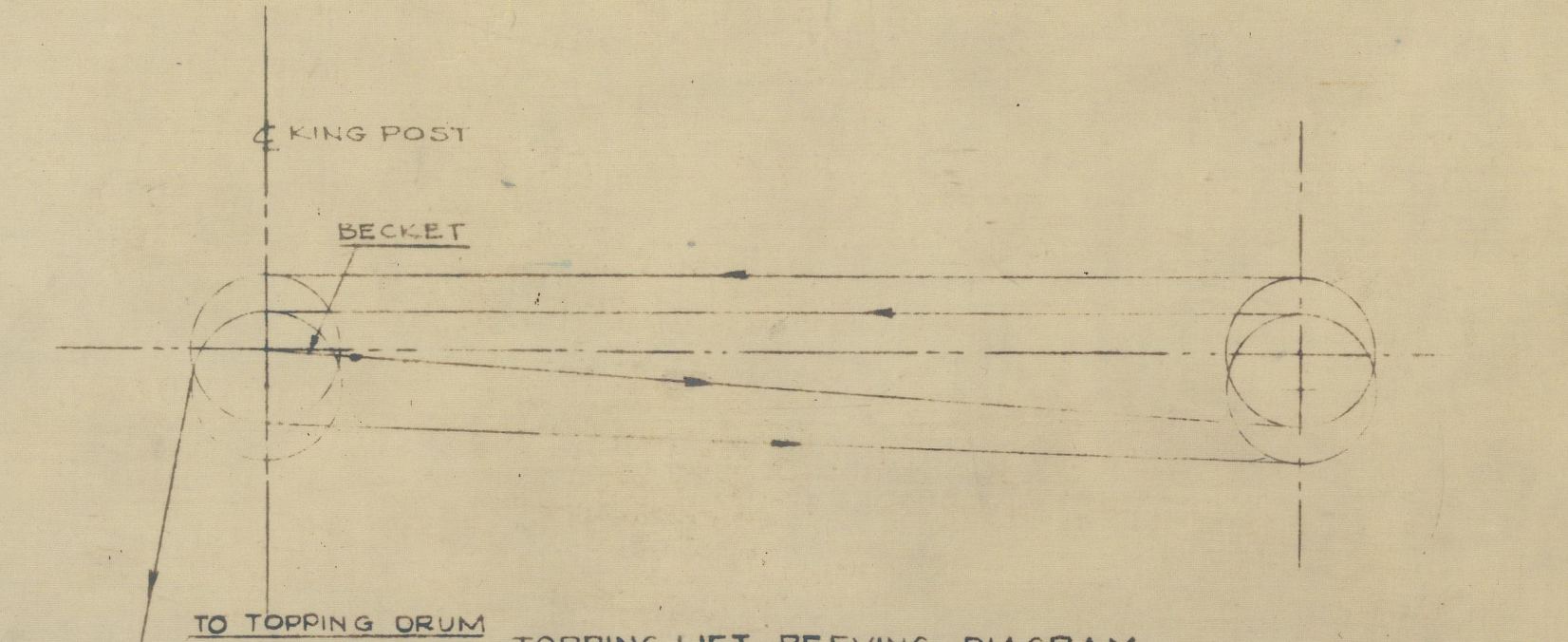
PLAN OF UPPER ROTATING PLATFORM
SCALE ½"=1'-0"



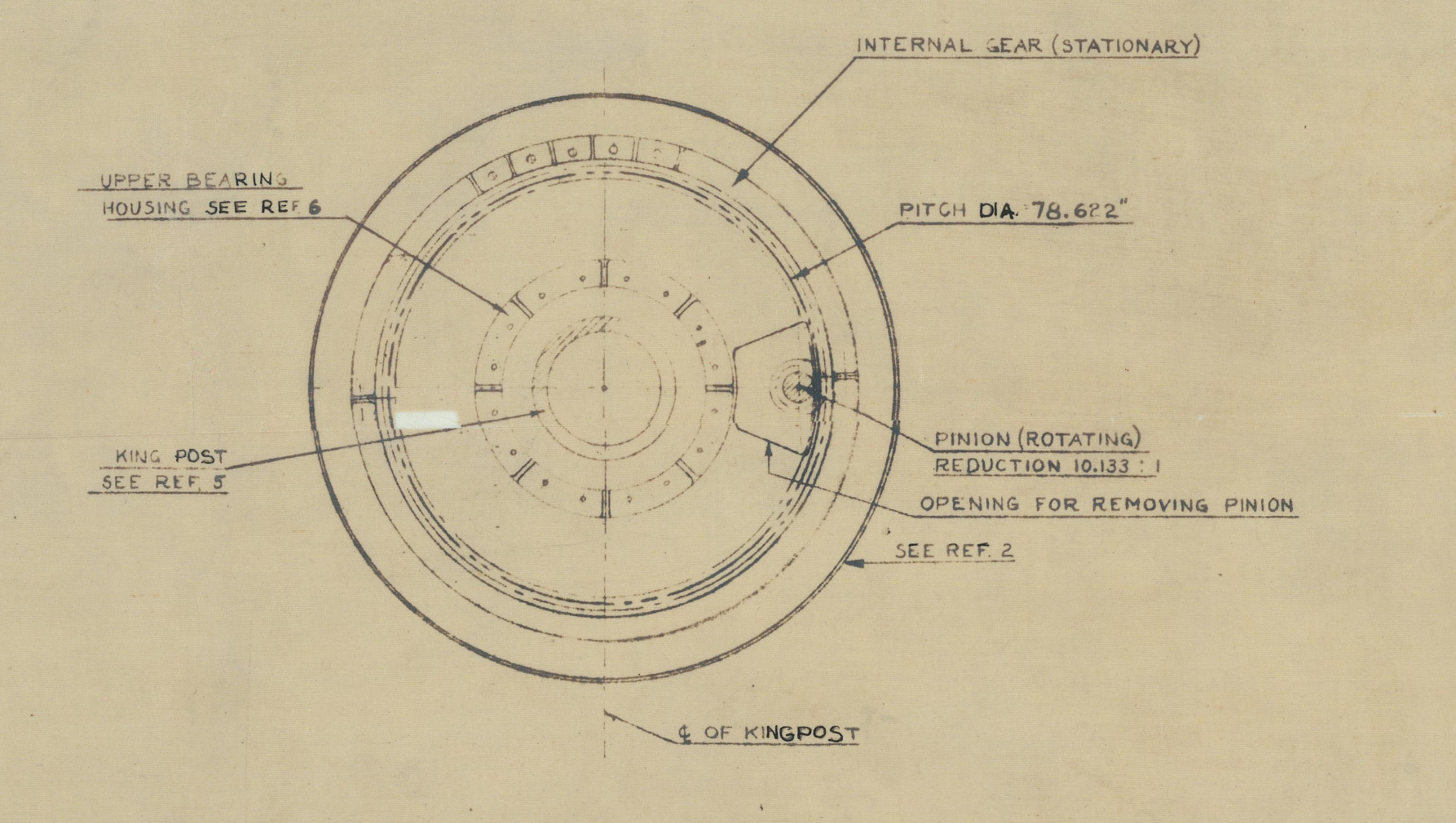
SECTION 8A



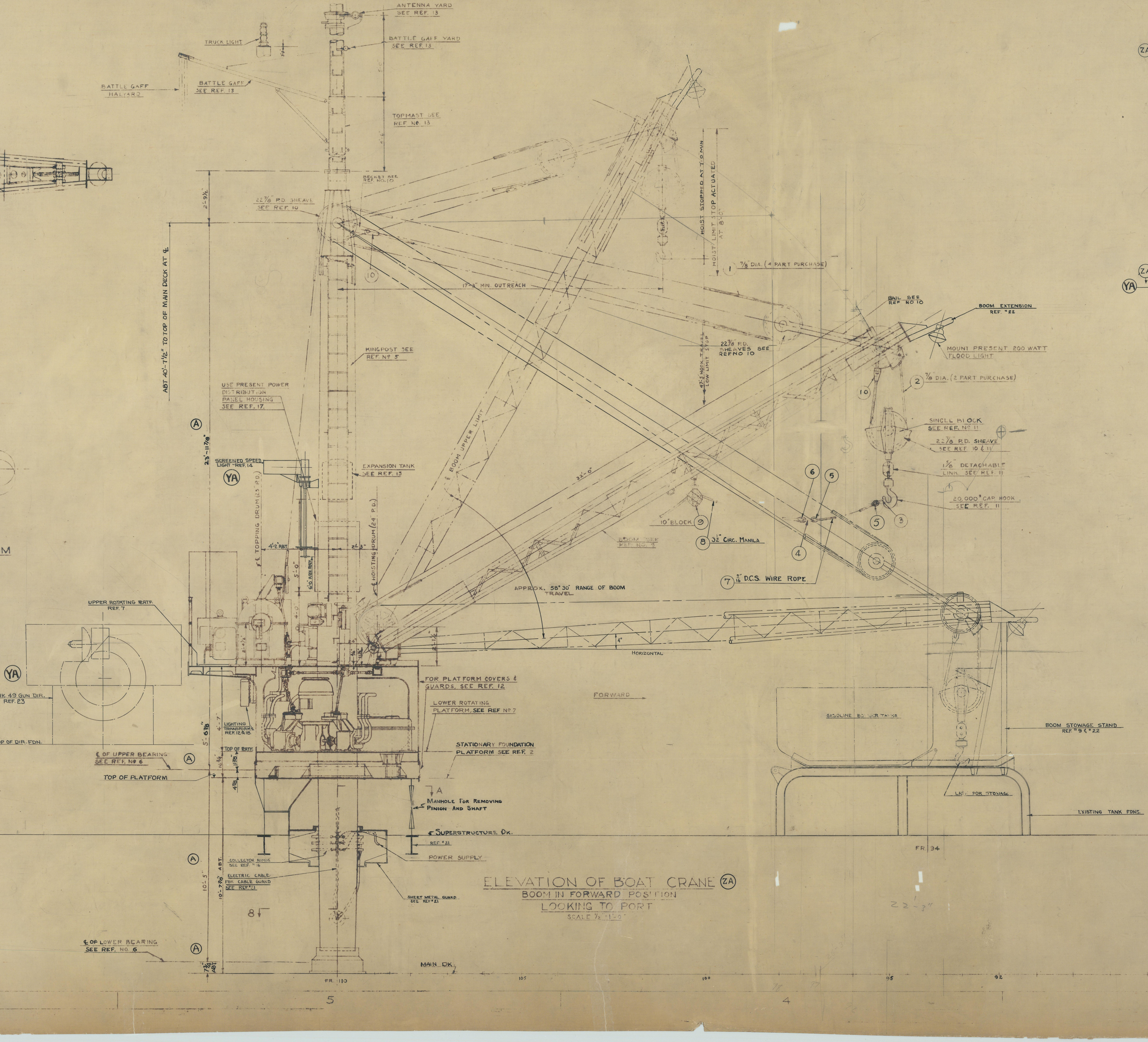
PLAN OF LOWER ROTATING PLATFORM
SCALE ½"=1'-0"



TOPPING LIFT REEVING DIAGRAM
LOOKING TO PORT SIDE - BOOM HEAD FOR'D



PLAN OF STATIONARY FOUNDATION PLATFORM
SCALE ½"=1'-0"



ELEVATION OF BOAT CRANE (ZA)
BOOM IN FORWARD POSITION
LOOKING TO PORT
SCALE ½"=1'-0"

REFERENCES

NO.	P.S.N.Y. NO. AVP1013-	BU. OF SHIPS NO.	PLAN TITLE LETTER Nº, ETC.
1.	17-205	316431	BOAT CRANE (20000# CAP.) SPACE & CLEARANCE DIAGRAM
(ZA) 2.	~~1701-50~~	~~414854~~	~~BOAT CRANE (20000# CAP.) FOUNDATION FOR~~
3	1701-51	414856	BOAT CRANE (20000# CAP.) FORCE DIAGRAM
4	1701-52	414857	BOAT CRANE (20000# CAP.) KINGPOST STRESS DIAGRAM
5	1701-53	414858	BOAT CRANE (20000# CAP.) KINGPOST DETAILS
6	1701-54	414859	BOAT CRANE (20000# CAP.) KINGPOST BEARINGS & MOUNTINGS
7	1701-55	414860	BOAT CRANE (20000# CAP.) PLATFORM - ROTATING
8	1701-56	414861	BOAT CRANE (20000# CAP.) BOOM STRESS DIAGRAM
9	1701-57	414862	BOAT CRANE (20000# CAP.) BOOM DETAILS
10	1701-58	414863	BOAT CRANE (20000# CAP.) MISC. DETAILS SHEAVES, ETC.
11	1701-59	414864	BOAT CRANE (20000# CAP.) SINGLE BLOCK (SPRING)
12	1701-60	414865	BOAT CRANE (20000# CAP.) MISC. STR. DETAILS
13	1702-14	414868	MAIN TOP MAST DETAILS
14	6405-2	C&R Nº 315682	MOUNTING BRACKETS FOR SCREENED LIGHT
15	17-238	487964	BOAT CRANE MACHINERY - GENERAL ARRANGEMENT (M.L. BAYARD & CO. INC PHILADELPHIA, PENNA.) (PLAN Nº 5300-1)
16	AVP10-S-62-1273		BOAT CRANE (20,000# CAP.) COLLECTOR RING ASSEMBLY & DETAILS.
17	AVP 10-S-62-1106		POWER PANEL
18	AVP 10-S-62-1142		TRANSFORMER
19	AVP 10 S-64-9		LIGHTING SYSTEM
20	AVP 1013-4808-33	316052	ARR'G'T OF WEATHER DK. & CRANE DRAINS - SECTIONS & ELEVATIONS - AFT.
(ZA) 21	Bos. # 305		FDN. FOR 20,000# CAP. BOAT CRANE
22	Bos. #104		20,000# CAP. BOAT CRANE, MODIFICATIONS TO BOOM STOWAGE STAND.
(YA) 23	AVP11-S7402-81741		40 M/M (QUAD. MOUNT.) GUN & DIRECTOR FDNS. FR 115-124

CRANE CAPACITIES

DYNAMIC EFFECT DUE TO 10° ROLL OF SHIP & AFFECT OF 10° LIST INCLUDED IN TABULATIONS

HOISTING

	WORKING LOAD ON HOOK 20,000 LBS.	WORKING LOAD ON HOOK 5,000 LBS.
HOOK SPEED	20 F.P.M.	80 F.P.M.
SPEED HYDRAULIC PUMP "A" END	580 R.P.M.	590 R.P.M.
SPEED HYDRAULIC MOTOR "B" END	232 R.P.M.	922 R.P.M.
HELICAL GEAR REDUCTION	2.037 : 1	2.037 : 1
WORM GEAR REDUCTION	17.333 : 1	17.333 : 1
TOTAL REDUCTION	35.3 : 1	35.3 : 1
DRUM SPEED	6.57 R.P.M.	26.1 R.P.M.
ROPE SPEED AT DRUM	40 F.P.M.	160 F.P.M.
DRUM PITCH DIA.	24"	24"
ROPE PULL AT DRUM	12,300 LBS.	3,100 LBS.
BLOCK PURCHASE (NO. PARTS)	2	2
DRUM STOWAGE	132 FT. LIVE + 2½ DEAD TURNS	132 FT. LIVE + 2½ DEAD TURNS

TOPPING

	WORKING LOAD ON HOOK 20,000 LBS.
MOTOR SPEED	1640 R.P.M.
PRIMARY WORM REDUCTION	14.666 : 1
SECONDARY WORM REDUCTION	14. : 1
TOTAL REDUCTION	205.6 : 1
DRUM SPEED	8 R.P.M.
ROPE SPEED AT DRUM	50 F.P.M.
DRUM PITCH DIA.	25"
ROPE PULL AT DRUM	11,950 LBS.
BLOCK PURCHASE (NO. PARTS)	4
DRUM STOWAGE	121 FT. LIVE + 2½ DEAD TURNS
AVERAGE BOOM TRAVEL	½° PER SEC.

✓ working

ROTATING

CRANE ROTATES THRU 360° (NO STOPS)	WORKING LOAD ON HOOK 20,000 LBS.
SPEED HYDRAULIC PUMP "A" END	580 R.P.M.
SPEED HYDRAULIC MOTOR "B" END	522 R.P.M.
WORM GEAR REDUCTION	32.5 : 1
HELICAL GEAR REDUCTION	3.053 : 1
MAIN PINION TO INTERNAL GEAR	10.133 : 1
TOTAL REDUCTION	1,005 : 1
SPEED OF CRANE ROTATION	.517 R.P.M. (MAX)
MAX. DUTY AT ½ R.P.M.	1,950,000 Lb. IN.

✓ working

HOISTING & ROTATING HYDRAULIC PUMP

HYDRAULIC PUMP DUTY @ 580 R.P.M. = 6820 LB. IN. ROTATING & HOIST DRIVES OPERATING SIMULTANEOUSLY		HOISTING	ROTATING
MOTOR SPEED		1740 R.P.M.	1740 R.P.M.
SPIRAL BEVEL GEAR REDUCTION		3 : 1	3 : 1
SPEED OF HYDRAULIC PUMP (TWO "A" ENDS)		580 R.P.M.	580 R.P.M.
MAX. PUMPAGE	20,000 LB. LOAD	23.4 G.P.M.	52.8 G.P.M.
	5,000 LB.	58.6 G.P.M.	–

LIST OF MATERIAL

QUANTITIES ARE FOR ONE SHIP

PIECE NO.	NO. REQ'D	SPARES	EST. WT.	DESCRIPTION	DRAWING NUMBER CONTRACT'R	DRAWING NUMBER BUREAU	MATERIAL	MAT'L SPEC. AND GRADE	SYMBOL	REMARKS
1	1			7/8" D. TOPPING ROPE L=220 FT. UNCOATED			HIGH GRADE PLOW ST.	22-R-3		1-600'-0" REEL OF 7/8" 6×37 WIRE ROPE FOR TOPPING AND HOISTING ROPES
2	1			7/8" D. HOISTING ROPE L=193 FT. UNCOATED			"	"		
3	1			7/16" ANCHOR SHACKLE (COMPLETE WITH ½" D. PIN & COTTER)			FORGED ST. GALV.	COMM'L.		SEE NOTE 3.
4	1			3/4 " " (COMPLETE WITH PIN & COTTER)			FORGED ST. GALV.	"		SEE NOTE 4
5	2			THIMBLE (WIRE ROPE) 5/8" SCORE			WROUGHT STEEL	"		SEE NOTE 5
6	1			" (MANILA ROPE) 1⅛" "			"	"		SEE NOTE 6
7	1			CONTROL LINE PENDANT L=13'-0"			EXT. STRONG CAST ST.	22-R-3		7/16" DIA. (6×19)
8	1			HOOK CONTROL LINE L=120'-0"			MANILA	T-R-601		3½" CIRC.
9	1			10" SING. METAL BLOCK (FOR MANILA ROPE)			STEEL	C&R Nº 150951		SHACKLE REGULAR RIG #1
10	2			7/8" OPEN SOCKET (COMPLETE WITH PIN & COTTER)			STEEL			C&R PLAN NO. 376197

GENERAL NOTES

1. ONE BOAT CRANE REQUIRED PER SHIP.
2. MACHINERY FURNISHED BY THE M. L. BAYARD & CO. INC. PHILADELPHIA, PENNA., SEE REF. 15
3. 7/16" ANCHOR SHACKLE SIMILAR TO LAUGHLIN CAT. 125, PG. 7, FIG. G-213 OR EQUAL.
4. 3/4" ANCHOR SHACKLE SIMILAR TO LAUGHLIN CAT. 125, PG. 7, FIG. G-213 OR EQUAL.
5. 5/8" SCORE WIRE ROPE THIMBLE SIMILAR TO LAUGHLIN CAT. 125, PG. 16, CLOSED, FIG. G-411 OR EQUAL.
6. 1⅛" SCORE MANILA ROPE THIMBLE SIMILAR TO LAUGHLIN CAT. 125, PG. 16, FIG. G-415 OR EQUAL.
(ZA) 7.

ALL MATERIAL SHOWN ON THIS PLAN BEING FURNISHED BY CONTRACTOR.

ALTERATIONS

MARK	MADE BY	CHK'D BY	PANEL	DESCRIPTION	APP'D	DATE
(A)	PUGET	SOUND	5⁴	DIMENSION 24'-0" CHANGED TO 23'-11 7/8" " 5'-6 3/4 " " 5'-6 7/8" " 10'-8 3/8" " " 10'-7 7/8" " 7 5/8" " " 7 3/4" DIMENSIONS 40'-7½", 11 7/8" & 4 7/8" & NOTES ADDED	AT	ISSUE
(ZA)	M.W.	LHR	2¹ 3² 4¹	IN "ELEVATION OF BOAT CRANE" FDN'S. MODIFIED TO SUIT REF. 21, & BOOM STOWAGE MOD. TO SUIT REF. 22 REF. 2 & GEN. NOTE #7 DELETED & REF. #21 & #22 ADDED	JFM	1/2/43
5 (YA)	R.D.M.	L.H.R.	7² 5¹ 6¹ 3¹	PLAN OF UPPER ROTATING PLATF., PLAT'G. & COAMING MODIFIED & TOPPING WINCH CONTR. RELOCATED ELEV. OF BOAT CRANE, SCREENED SPEED LIGHT CHGD. FROM AFT END OF UPPER ROTATING PLATF. TO KINGPOST 6'-0" ABV. UPPER PLATF. LOCATION OF MK. 49 DIRECTOR INDICATED & REF. 23 ADDED.	JFM	7/9/43

NAVY YARD, BOSTON
EXAMINED BY L.H.R. SUPV'G. R.G. SR. NAV. ARCH.
APPROVED FOR
AVP 21 & 22
DATE 5 DEC. 1942
A.H. Parker
ASST. DESIGN SUPT.

NUMBER AND NAME OF APPLICABLE VESSEL		BUILDING YARD
U.S.S. MATAGORDA	AVP 22	BOSTON NAVY YARD
U.S.S. HUMBOLDT	AVP 21	BOSTON NAVY YARD
U.S.S. BISCAYNE	AVP 11	PUGET SOUND NAVY YARD
U.S.S. BARNEGAT,	AVP 10	PUGET SOUND NAVY YARD

SEAPLANE TENDERS (SMALL)
~~U.S.S. BARNEGAT AVP10~~ ~~U.S.S. BISCAYNE AVP11~~
~~U.S.S. CASCO AVP12~~ ~~U.S.S. MACKINAC AVP13~~

FORWARDED TO { BU. ...... BU. ...... IN LET. NO. { ...... DATED ......
APPROVED BY { BU. ...... BU. ...... IN LET. NO. { ...... DATED ......

PUGET SOUND NAVY YARD
INDUSTRIAL DEPARTMENT
PLAN NO. AVP1013-1701-62

SCALE ½ INCHES=1 FT.
GROUP LEADER C. B. Shovar
DELINEATOR McDONALD & KISTNER H. W. ATHERTON
CHECKER G. C. Schultz 2/17/42
CHIEF DR'MN H. Shaw
SUPERVISOR A. Carr

APPROVED
DATE 2-20-42
C.W. Chamblin
FOR MANAGER

BOAT CRANE
(20,000 LBS. CAPACITY)
GENERAL ARRANGEMENT

BUREAU OF SHIPS PLAN NUMBER
Nº 414867-B

JOB ORDERS, WEIGHTS, ETC.

	CLASS	GROUP	SUBJ'T	CALC. WT.

W. W. Anderson

INDEXED

BOSTON ISSUE

PRINTS ISSUED					
D/O		6	6	6
042S	1			
S.O.S	2			
S.F.				
NCO				
042-M M.C.		1	1	1
042-M VEN	1			
042-M ELE	1			
042-M PIP	1			
042-M MCH				
PLANNERS		1/1	1/1	1/1
042-H STR	1			
042-H DC				
042-H TES	1			
042-H FIT	1			
042-H ARR	1			
043-S				
043				
060				
X94				
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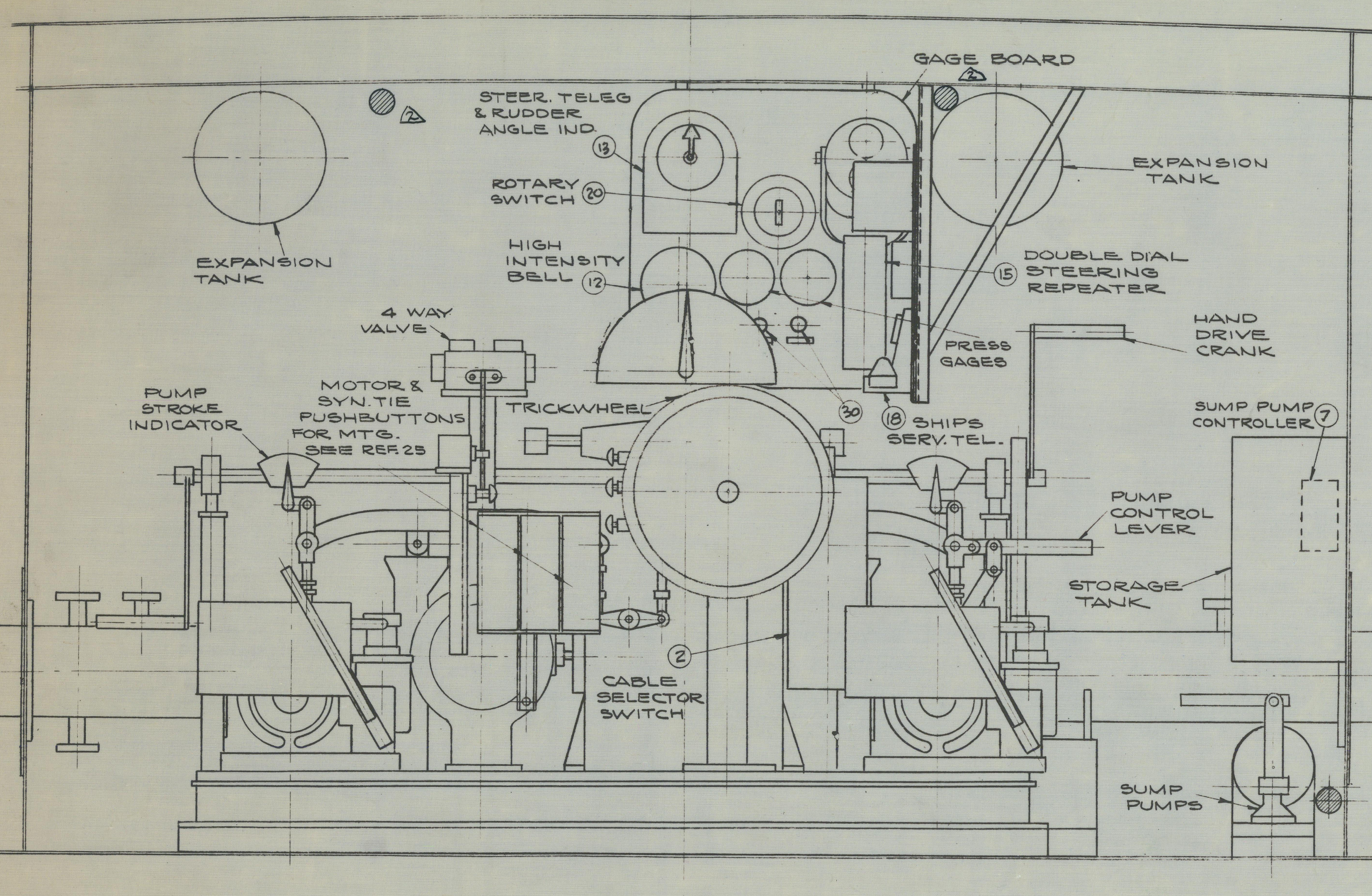
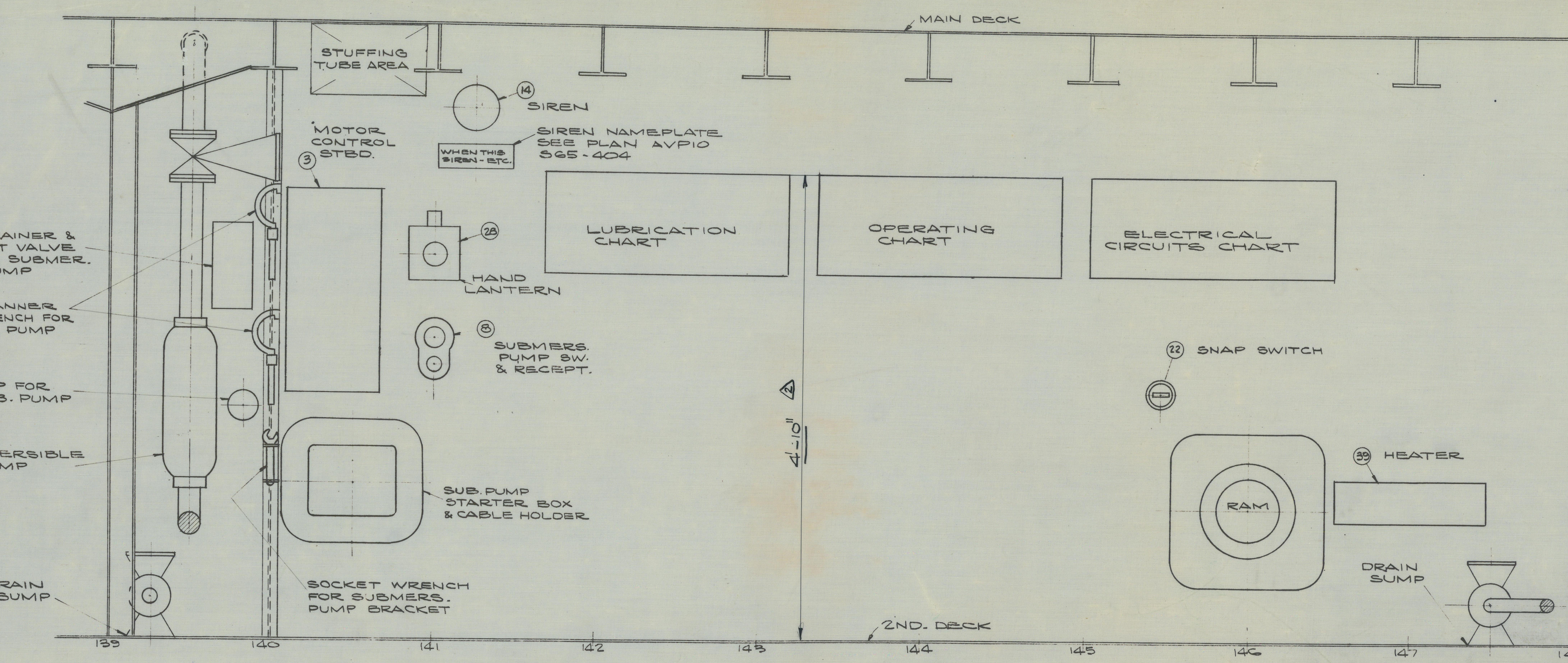
X51-R				
X51				
X41				
X38				
X31-O				
X31				
X23				
X17				
X11-L				
X11				
DATE	5/11/42	12-5-42	1/4/43	7/9/43

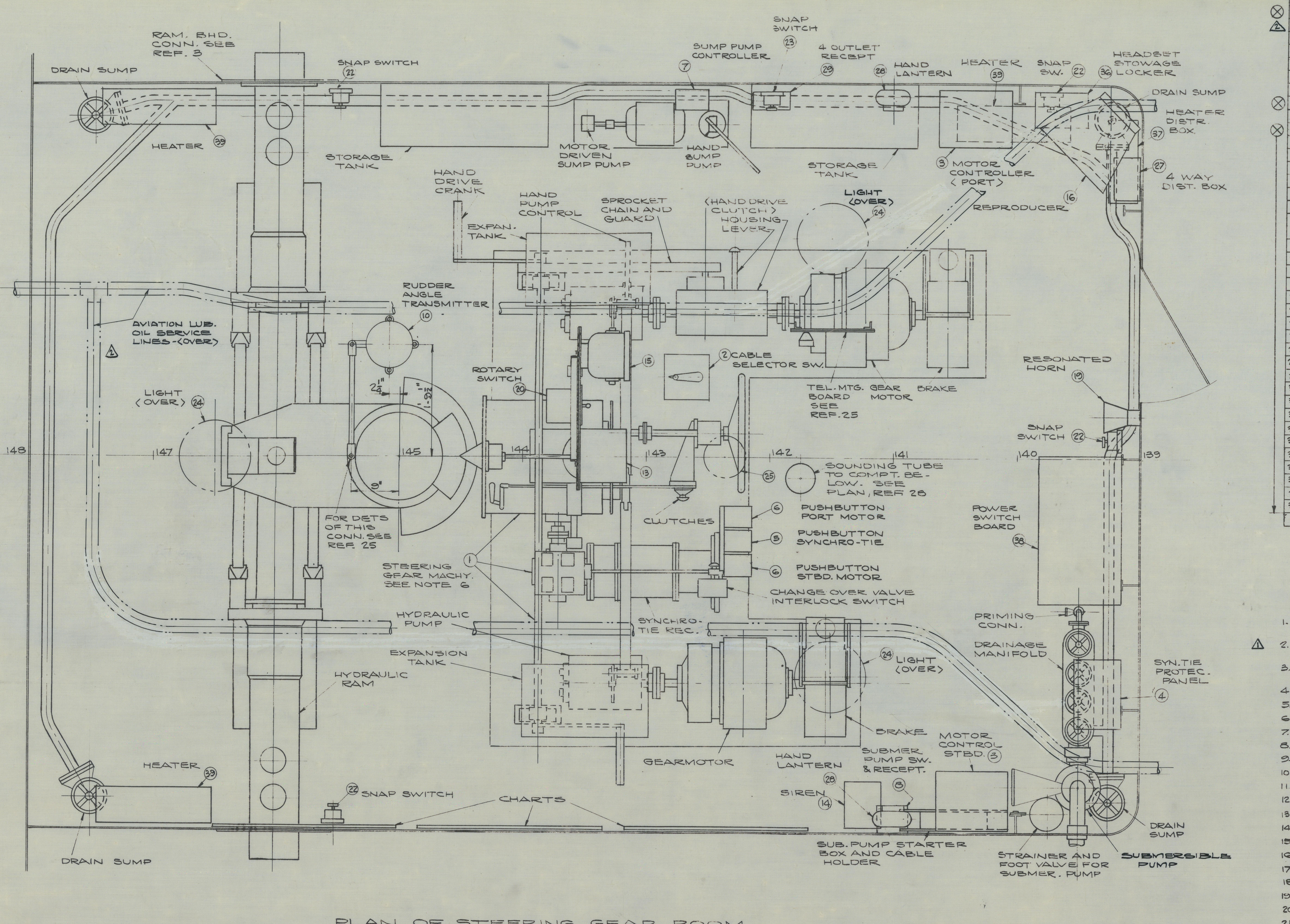
414867-B



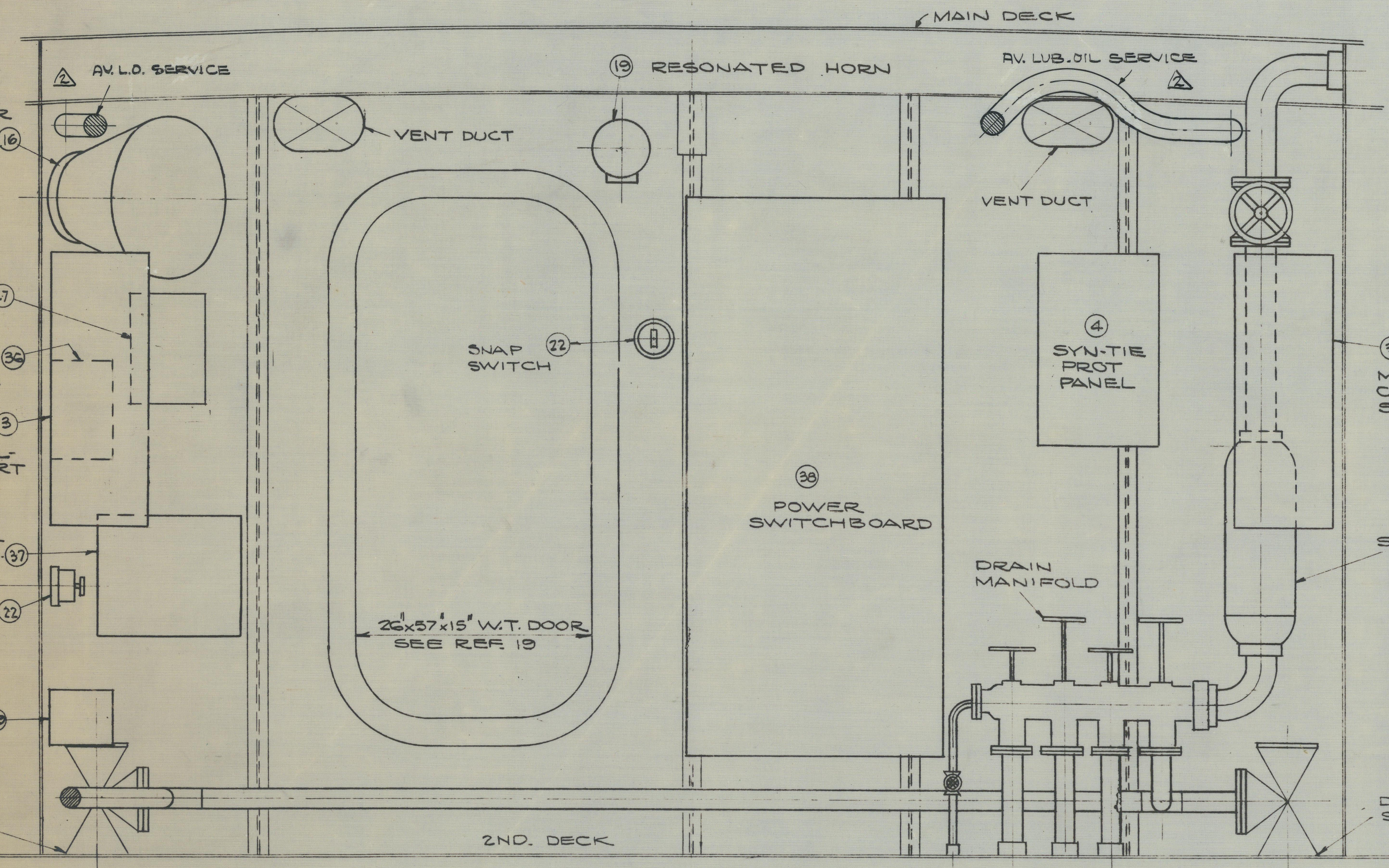
SECTION AT FR. 140 LOOKING AFT


MAIN DECK
STUFFING TUBE AREA
SIREN
MOTOR CONTROL STBD.
LUBRICATION CHART
OPERATING CHART
ELECTRICAL CIRCUITS CHART
STRAINER & FOOT VALVE FOR SUBMERS. PUMP
SPANNER WRENCH FOR SUB. PUMP
HAND LANTERN
SUBMERSIBLE PUMP SW. & RECEPT.
SNAP SWITCH
CAP FOR SUB. PUMP
SUBMERSIBLE PUMP
SUB. PUMP STARTER BOX & CABLE HOLDER
HEATER
RAM
SOCKET WRENCH FOR SUBMERS. PUMP BRACKET
DRAIN SUMP
2ND. DECK
139
140
141
142
143
144
145
146
147

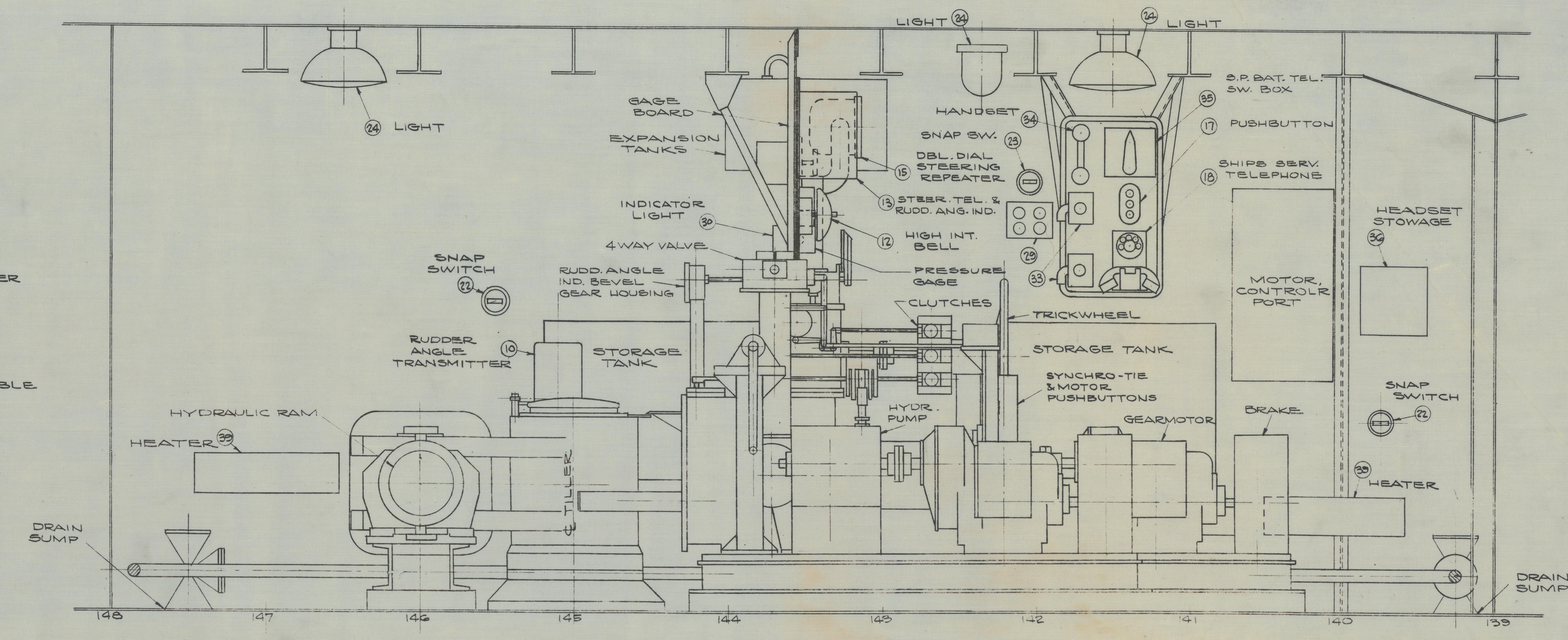
ELEVATION - STEERING GEAR ROOM - LOOKING OUTBD. TO STBD. BHD.



PLAN OF STEERING GEAR ROOM



SECTION AT FR. 141 LOOKING FWD.



ELEVATION - STEERING GEAR ROOM - LOOKING TO PORT BHD.

LIST OF MATERIAL

QUANTITIES ARE FOR ONE SHIP. SEE NOTE 4.

	PC. NO.	NO. REQD	DESCRIPTION	SYMB. NO.	DETAIL PLAN	REMARKS
⊗	1	1	STEERING MACHINRY		AVP 1013-2200-9	SEE NOTE 6
△2	2	1	CABLE SELECTR. SW	727	AVP 1013-22-21	SEE NOTE 3
	3	2	MOTOR CONTROLR	719	AVP 1013-22-17	
	4	1	SYN. TIE PROT. PANEL		AVP 1013-22-18	
	5	1	SYN. TIE PUSHBUTTN		" " "	
	6	2	MOTOR PUSHBUTTON		AVP 1013-22-17	
	7	1	SUMP PUMP CONTROLR.			
⊗	8	1	SUB. PUMP OUTLET		9-S-4864-L	
	9					
⊗	10	1	RUDD. ANGLE TRANSM	909	AVP 10-S65-924	
	11	1	20 WIRE CONN. BOX	142	9-S-4302-L	NOT SHOWN LOC. TO SUIT
	12	1	HIGH INTENSITY BELL	861	11-T-1306-L	
	13	1	STEER. TEL. & RUDD. ∠ IND.	910	AVP 10-S65-922	
	14	1	SIREN	881	AVP 10-S65-420	
	15	1	DBL. DIAL STEER. REP.	892	AVP 10-S24-8	SPERRY NO. 643623
	16	1	REPRODUCER	922	AVP 10-S65-319	
	17	1	PUSHBUTTON	853	9-S-4489-L	(X1JV)
	18	1	SHIPS SERV. TELEPHN.	868	AVP 10-S65-422	
	19	1	RESONATED HORN	716		
	20	1	ROTARY SWITCH	803	9-S-4885-L	
	21					
	22	4	SNAP SWITCH	651	9-S-4718-L	
	23	1	" "	657	9-S-4719-L	
	24	3	LIGHT	79	9-S-4596-L	
	25	1	LIGHT (EMERG.)	130	9-S-5020-L	
	26	1	BRANCH BOX	134	9-S-4260-L	NOT SHOWN. LOC. TO SUIT
	27	1	4 WAY DIST. BOX.	170	9-S-5047-L	
	28	2	HAND LANTERN	88	9-S-4432-L	
	29	1	4 OUTLET RECEPT.	241	9-S-4809-L	(4 WAY OUTLET)
	30	2	INDICATOR LIGHT	828	9-S-5040-L	
	31					
	32					
	33	2	JACK BOX	839	9-S-5012-L	
	34	1	HANDSET (TEL.)	838	AVP 10-S65-1504	
	35	1	S.P. BATT. TEL. SW. BOX	797	12-T-398	
	36	1	HEADSET STOWAGE	782	AVP 1013-7108-2	
	37	1	HEATER DIST. BOX	158	9-S-5011-L	
	38	1	POWER SWITCH BD.	751	AVP 10-S62-1117	
	39	3	HEATER	730	AVP 10-S38-11	

REFERENCE PLANS

	BU. C&R	P.S	TITLE
	1. 315242	AVP 1013-2200-9	STEERING GEAR-ARRGT. OF MACHINERY
△	2. 315239	AVP 1013-2200-6	FDTNS. FOR MISC. EQUIPT. IN STEERING GEAR ROOM
	3. 315086	AVP 1013-1105-22	MISC. STRUCT. BHDS. 2ND DECK AFT OF FR. 81
	4. 315238	AVP 1013-2200-5	FDTNS FOR STEERING MACHY
	5. 315798	AVP 1013-2200-10	STEER. GEAR-ARRGT. OF PIPING
	6. 315235	AVP 1013-2200-2	RUDDER STOCK
	7. 315906	AVP 1013-2200-13	STEERING GEAR GAGE BOARD
	8. 316074	AVP 1013-1403-3	DK. COVER. ARTIF. RUBBER CLEATS
	9. 315154	AVP 1013-1601-4	COMPT & ACCESS. INBD. PROFILE
	10. 315152	AVP 1013-1601-2	COMPT. & ACCESS PLAT. & 2ND DK
	11. 315472	AVP 1013-4000-1	OPENINGS FOR SHIPPING
	12. 315473	AVP 1013-4000-2	SHIPPING MACHY LIST
	13. 315306	AVP 1013-3801-16	VENTILATION SUP. & EXH.
	14. 316514	AVP 1013-22-4	TILLER DISMANTLING ETC.
	15.	AVP 10-S65-3	I.C. SYSTEM 2ND DECK PLAN
	16	AVP 10-S64-6	LIGHTING SYSTEM 2ND DK. PL
	17.	AVP 10-S62-1564	POWER SYSTEM 2ND DK. PLAN
	18.	AVP 10-S71-3	F.C. SYSTEM 2ND DECK PLAN
	19. 316155	AVP 1013-16-20	W.T. DOORS ETC.
	20. 315350	AVP 1013-4700-8	SUBMERSIBLE PUMP STOWAGE
	21. 315753	AVP 1013-9200-1	WRENCH LIST AND STOWAGE
	22. 315504	AVP 1013-4801-11	DRAIN. SYSTEM 1½" MANIFOLDS
	23. 315521	AVP 1013-4801-15	DRAIN. SYSTEM AFT OF FR. 129
	24. 315518	AVP 1013-4803-9	FIRE AND FLUSHING SYSTEM AFT PLAN.
	25 315891	AVP 1013-2200-12	STEERING GEAR MISC. DETAILS
	26. 315416	AVP 1013-2808-10	LABEL PLATES STEERING GEAR SYSTEM
	27.	AVP 10-S65-404	STEERING EMERGENCY SIGNAL SYSTEM
	28. 315603	AVP 1013-4809-3	SOUNDING TUBES, AIR ESCAPES, ETC.
	29. 315244	AVP 1013-2403-2	PILOT HOUSE ARRANGEMENT
	30.	AVP 10-S62-1566	POWER SYSTEM, SUPER DECK ETC.
△2	31. 315377	AVP 1013-3101-3	STOWAGE OF SPARE PARTS SH. 1
	32. 315481	AVP 1013-4501-2	AV. LUB. OIL. SYST. GEN. ARRGT.

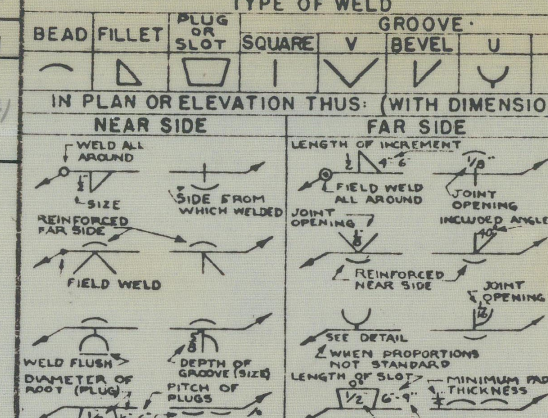
GENERAL NOTES

1. WHERE LOCATING DIMENSIONS ARE NOT GIVEN ON THIS PLAN OR REFERENCED PLANS, ITEMS ARE TO BE LOCATED AS SHOWN EXCEPT THAT SLIGHT CHANGES WILL BE PERMITTED TO SUIT WORKING CONDITIONS.
2. PIPING IS NOT SHOWN ON THIS PLAN. SEE REFERENCE 5.
3. STEERING GEAR IS FURNISHED BY STRUTHERS WELLS TITUSVILLE CORP. IN ACCORDANCE WITH CONTRACT NOs -70204, SCHEDULE 7420
4. ALL ITEMS MARKED THUS ⊗ ARE FOR REFERENCE ONLY AND SHOULD NOT BE ORDERED FROM THIS PLAN. FOR PROCUREMENT AND WEIGHT TABULATION OF THESE ITEMS SEE APPROPRIATE REFERENCE PLANS
5. FOR TILLER DISMANTLING SEE REFERENCE 14
6. PIECE NO. 1 INCLUDES ALL ITEMS ORDERED ON MACHINERY ARRANGT PLAN, REFERENCE 1.
7. BEDPLATES ARE FURNISHED BY CONTRACTOR BUT FOUNDATIONS AND SEATINGS ARE BY BUILDING YARD.
8. FOR COMPLETE DRAINAGE PIPING SEE PLAN REFERENCE 23.
9. STEERING GEAR TRANSMITTER LOCATED IN PILOT HOUSE ORDERED AS PC. 29 ON PLAN REF. 30
10. STEERING CABLE SELECTOR SWITCH LOCATED IN PILOT HOUSE ORDERED AS PC 30 ON PLAN, REFERENCE 30
11. LOCATION OF STEERING GEAR IN PILOT HOUSE SHOWN ON PLAN, REFERENCE 29

ALTERATIONS

MARK	PANEL	MADE BY	CH'K'D. BY	ALTERATION	APP'D.	DATE
△1		R.H.B.	H.P.F.	REF. PLAN Nº CHANGED	ZZ7	4/4/41
△2 8			R.E.H.	ADDED REFERENCES 31 & 32 ADDED AV. LUB. OIL LINES LOWERED OPERATING CHARTS CHGD SYMBOL NO. PC. 2-WAS 721	ZZ7	9/25/41

FUSION WELDING SYMBOLS



1. NEAR, FAR AND BOTH SIDES LOCATIONS REFER TO NEAREST MEMBER PARALLEL TO PLANE OF DRAWING AND NOT TO OTHERS FARTHER BEHIND.
2. ALL WELDS ARE CONTINUOUS & OF STANDARD PROPORTIONS UNLESS OTHERWISE SHOWN. THE ROOT OPENINGS OF ALL GROOVED WELDS MAY BE SHOWN.
3. WELDS ON BOTH SIDES ARE OF SAME SIZE UNLESS OTHERWISE SHOWN.
4. SYMBOLS GOVERN TO BREAK IN CONTINUITY OF STRUCTURE OR TO EXTENT OF HATCHING OR DIMENSION LINES.
5. ON SECTION OR END VIEWS ONLY, THE SIDE TO WHICH ARROW POINTS IS CONSIDERED NEAR SIDE WHEN WELD IS NOT DRAWN.
6. WHEN WELDS ARE DRAWN IN SECTION OR END VIEWS, SIZE ONLY NEED BE GIVEN.
7. IN JOINTS IN WHICH ONE MEMBER ONLY IS TO BE GROOVED, ARROWS POINT TO THAT MEMBER.

PRINTS ISSUED

DATE	X11	X11 I.	X17	X23	X31	X31 ORD.	X38	X41	X51	X51R		X56	X61	X68	X71	X74	X94	060	043	SCH 043	042H	042M	NCO	S.F.	042S	SUPT. SEB.	B03
2-1-41							3		7										1		1	1	1		1	2	
4-5-41							3		7										1		1	1	1		1		1
4-26-41							3		7										1		1	1	1		1		1

JOB ORDERS, WEIGHTS, ETC.

DESCRIPTION	JOB ORDER NO.	BILL OF MAT'L. NO.	COST GROUP	WEIGHT GROUP	CALC. WEIGHT
PCS 2-7- INCL.	2200-01	2200-8A		25b	362#

9/19/41

FORWARDED TO (BU. (BU. IN. LET. NO. DATED
APPROVED BY (BU. (BU. IN. LET. NO. DATED

②

PUGET SOUND NAVY YARD
INDUSTRIAL DEPARTMENT

SEAPLANE TENDERS (SMALL)
U.S.S. BARNEGAT - AVP10. U.S.S. BISCAYNE - AVP11.
U.S.S. CASCO - AVP 12. U.S.S. MACKINAC - AVP 13.

STEERING GEAR ROOM - GENERAL ARRANGEMENT

SCALE 1½:12 **PLAN NO. AVP1013-2200-8**

DELINEATOR K. CROUCH CHECKER Wood
TRACER "
GROUP LEADER R.E. Hansen
CHIEF DR'MN. R. Johnson
SUPERVISOR
APPROVED
Wm. H. Galbraith
for DESIGN SUPERINTENDENT
DATE 18 DEC 1940
Wm. H. Galbraith
for PLANNING OFFICER

BASIC BU. C. & R. No. 315241

2 CB.S.O.S. SEATTLE 6/13/41 BROMAN

AVP10/S22

AVP /S1-3
SER. 6160694-A/45

2BP's NCO - M.O. 411 11/15/41

1BP - SR. MBR. BD. I.+S. - 2/4/42

1BP - Gas Board I+S - AVP10/S8